

## 2009 U.S.A. Material Safety Data Sheets

*Product and Company Identification*

*Composition, Information on Ingredients*

*Hazards Information*

*First Aid Measures*

*Firefighting Measures*

*Accidental Release Measures*

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**The Art of Refinishing.**



**MSDS INDEX and DOT ADDENDUM (Updated January 21, 2008)**

\* Indicates product is discontinued with stocks for sale.

<b>Article Number</b>	<b>MSDS 1- Clears</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
10020	Standocryl® 2.1 Clear	1-4 UN1263 Paint, Class 3, PG II
16156	Standocryl® 2.1 HS Clear	1-4 UN1263 Paint, Class 3, PG III
15900	Standocryl® 2K Clear 15-60	1-4 UN1263 Paint, Class 3, PG III
14580	Standocryl® 2K HS Clear	1-4 UN1263 Paint, Class 3, PG III
16163	Standocryl® 2K Matt Clear 007	1-4 UN1263 Paint, Class 3, PG III
12227	Standocryl® 2K Plastic Clear Satin Gloss	1-4 UN1263 Paint, Class 3, PG III
16252	Standocryl® 2K Premium Clear	1-4 UN1263 Paint, Class 3, PG III
16161	Standocryl® VOC Platinum Clear	1-4 UN1263 Paint, Class 3, PG III
<b>Article Number</b>	<b>MSDS 2- Acid Etch Primers</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
16134	Standox® 1K Primer Filler Light Gray	5-8 UN1263 Paint, Class 3, PG III
16141	Standox® 1K Primer Filler Light Gray - Aerosol	5-8 UN1950, Aerosols, flammable Class 2.1
16167	Standox® Etching Adhesion Primer	5-8 UN1263 Paint, Class 3, PG III
16189	Standox® Low VOC Etch Primer	5-8 UN1263 Paint, Class 3, PG II
<b>Article Number</b>	<b>MSDS 3- Primers/ Surfacer</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
14440	Standohyd® 1K Primer Surfacer Gray	9-13 UN3082 Environmentally Harzardous Substance, Liquid, n.o.s., Class 9, PG III
16170	Standox® 2K HS System Filler Dark Gray	9-13 UN1263 Paint, Class 3, PG III
11999	Standox® 2.1 Filler	9-13 UN1263 Paint, Class 3, PG II
14025*	Standox® 2K HS Sealer	9-13 UN1263 Paint, Class 3, PG III
15161	Standox® 2K HS System Filler	9-13 UN1263 Paint, Class 3, PG III
16153	Standox® 2K Nonstop Primer Filler Dark Gray	9-13 UN1263 Paint, Class 3, PG III
15331	Standox® 2K Nonstop Primer Filler Medium Gray	9-13 UN1263 Paint, Class 3, PG III
16154	Standox® 2K Nonstop Primer Filler White	9-13 UN1263 Paint, Class 3, PG III
15048	Standox® 2K Transparent Adhesion Sealer	9-13 UN1263 Paint, Class 3, PG III
16182	Standox® Low VOC Sealer	9-13 UN1263 Paint, Class 3, PG II
<b>Article Number</b>	<b>MSDS 4- Plastic Primers</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
11816	Standoflex® 2K Plastic Primer Surfacer	14-16 UN1263 Paint, Class 3, PG III
14408	Standoflex® 1K Plastic Primer Silver - Aerosol	14-16 UN1950, Aerosols, flammable Class 2.1
12065	Standoflex® 1K Plastic Primer Silver	14-16 UN1263 Paint, Class 3, PG III
<b>Article Number</b>	<b>MSDS 5- Misc. Undercoats</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
14696	Standox® 1K Primer Red Brown (Aerosol)	17-21 UN1950, Aerosols, flammable Class 2.1
16177	Standox® PE Spray Filler	17-21 UN1263 Paint, Class 3, PG III
16183	Standox® 2K EP Primer Surfacer	17-21 UN1263 Paint, Class 3, PG III
16181	Standox® 2K EP Primer (Aerosol)	17-21 UN1950, Aerosols, flammable Class 2.1
<b>Article Number</b>	<b>MSDS 6- Polyesters/ Stoppers</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
16159	Standox® 1K Bodyfine	22-25 UN1263 Paint, Class 3, PG III
15153	Standox® Soft Stopper	22-25 UN1263 Paint, Class 3, PG III
12251	Standox® Standosoft Fine Plastic	22-25 UN1263 Paint, Class 3, PG III
<b>Article Number</b>	<b>MSDS 7- Thinners/ Solvent Additives</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
16160*	Standoflex® Thinner 11100	26-31 UN1263 Paint Related Material, Class 3, PG III
80184	Standohyd® VE Water	26-31 not regulated
11107	Standox Silistop	26-31 UN1263 Paint Related Material, Class 3, PG III
11786	Standox® 2.1 Thinner Fast	26-31 UN1263 Paint Related Material, Class 3, PG III
10097	Standox® 2.1 Thinner Normal	26-31 UN1263 Paint Related Material, Class 3, PG III
16133	Standox® 2.1 Thinner Slow	26-31 UN1263 Paint Related Material, Class 3, PG II
11247	Standox® 2K Fade Out Thinner 11031	26-31 UN1263 Paint Related Material, Class 3, PG III
16157	Standox® 2K Smart Blend	26-31 UN1263 Paint Related Material, Class 3, PG III
11182	Standox® Express Thinner 2K 15-25	26-31 UN1263 Paint Related Material, Class 3, PG III
16169	Standox® Fast Dry Additive	26-31 UN1263 Paint Related Material, Class 3, PG II
11484	Standox® MS Thinner 2K 25-35	26-31 UN1263 Paint Related Material, Class 3, PG III
11395	Standox® MSB Thinner 05-15	26-31 UN1263 Paint Related Material, Class 3, PG III
12049	Standox® MSB Thinner 15-25	26-31 UN1263 Paint Related Material, Class 3, PG III
11387	Standox® MSB Thinner 20-30	26-31 UN1263 Paint Related Material, Class 3, PG III
19523	Standox® MSB Thinner 25-40	26-31 UN1263 Paint Related Material, Class 3, PG III
16158	Standox® MSB Thinner 30-45	26-31 UN1263 Paint Related Material, Class 3, PG III
11719	Standox® Polyester Thinner	26-31 UN1263 Paint Related Material, Class 3, PG II
11573	Standox® Rapid Thinner 2K 10-20	26-31 UN1263 Paint Related Material, Class 3, PG III
11921	Standox® Thinner 2K 35-40	26-31 UN1263 Paint Related Material, Class 3, PG III
16174	Standox® 2K Smart Blend Plus	26-31 UN1263 Paint Related Material, Class 3, PG II
16171	Standox® VOC Sealer Agent	26-31 UN1263 Paint Related Material, Class 3, PG III
<b>Article Number</b>	<b>MSDS 8- Cleaners/ Silicone Removers</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
16155*	Standohyd® Cleaner	32-34 UN1263 Paint Related Material, Class 3, PG III
15889*	Standohyd® Silicone Remover 0.4 lbs/gal	32-34 UN1263 Paint Related Material, Class 3, PG III
11654	Standox® Silicone Remover Antistatic	32-34 UN1263 Paint Related Material, Class 3, PG III
16166	Standohyd Cleaner Aerosol	32-34 UN1950, Aerosols, flammable Class 2.1
16176	Standohyd Cleaner	32-34 UN1263 Paint Related Material, Class 3, PG III
15099	Standox® Silicone Remover Antistatic Aerosol	32-34 UN1950, Aerosols, flammable Class 2.1
16178	Standohyd® VOC Cleaner 25	32-34 UN1263 Paint Related Material, Class 3, PG III
<b>Article Number</b>	<b>MSDS 9- Hardeners/ Activators</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>

11824	Standoflex® 2K Plastic Hardener	35-39 UN1263 Paint Related Material, Class 3, PG III
16125	Standox® 2.1 Hardener Extra Slow	35-39 UN1263 Paint Related Material, Class 3, PG III
11778	Standox® 2.1 Hardener Fast	35-39 UN1263 Paint Related Material, Class 3, PG III
10089	Standox® 2.1 Hardener Normal	35-39 UN1263 Paint Related Material, Class 3, PG III
16117	Standox® 2.1 Hardener Slow	35-39 UN1263 Paint Related Material, Class 3, PG III
15080/16145	Standox® 2K Hardener 05-15 - XFast	35-39 UN1263 Paint Related Material, Class 3, PG III
15013	Standox® 2K Hardener 15-25 - Fast	35-39 UN1263 Paint Related Material, Class 3, PG III
15978/16146	Standox® 2K Hardener 20-30 Normal	35-39 UN1263 Paint Related Material, Class 3, PG III
15935	Standox® 2K Hardener 25-40 Slow	35-39 UN1263 Paint Related Material, Class 3, PG III
15943	Standox® 2K Hardener 30-45 XSlow	35-39 UN1263 Paint Related Material, Class 3, PG III
16168	Standox® Etching Adhesion Activator	35-39 UN1263 Paint Related Material, Class 3, PG III
14564	Standox® PE Spray Filler Hardener	35-39 UN3107 Organic Peroxide, Type D Liquid, 5.2, PG II
14262	Standox® PE Hardener	35-39 UN3108 Organic Peroxide, Type E Solid, 5.2, PG III
16162	Standox® VOC Platinum Hardener	35-39 UN1263 Paint Related Material, Class 3, PG III
16190	Standox® Low VOC Etch Primer Activator	78-82 UN1263 Paint Related Material, Class 3, PG II
16184	Standox® EP Hardener 3:1	78-82 UN1263 Paint Related Material, Class 3, PG III

<b>Article Number</b>	<b>MSDS 10- Plastic System Additives</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
13649	Standox® 2K Matting Agent 606	40-42 UN1263 Paint, Class 3, PG III
15260	Standox® 2K Plasticiser	40-42 UN1263 Paint Related Material, Class 3, PG III

<b>Article Number</b>	<b>MSDS 11- 2K MS Standocryl Mixing Toners</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
10879*	2K RAL 9005 Black 841	43-49 UN1263 Paint, Class 3, PG III
10887*	2K Ralleye Black	43-49 UN1263 Paint, Class 3, PG III
14009*	2K Real Black	43-49 UN1263 Paint, Class 3, PG III
10208*	2K-010	43-49 UN1263 Paint Related Material, Class 3, PG III
10216*/89017*	2K-011	43-49 UN1263 Paint Related Material, Class 3, PG III
10224*/89050*	2K-024	43-49 UN1263 Paint Related Material, Class 3, PG III
14750*/81490*	2K-025	43-49 UN1263 Paint Related Material, Class 3, PG III
14769*/81504*	2K-031	43-49 UN1263 Paint Related Material, Class 3, PG III
10232*/89149*	2K-061	43-49 UN1263 Paint Related Material, Class 3, PG III
10240*/88517*	2K-112	43-49 UN1263 Paint Related Material, Class 3, PG III
10038*/90368*	2K-150	43-49 UN1263 Paint Related Material, Class 3, PG III
10046*/90376*	2K-151	43-49 UN1263 Paint Related Material, Class 3, PG III
14360*	2K-521	43-49 UN1263 Paint Related Material, Class 3, PG III
14386*	2K-522	43-49 UN1263 Paint Related Material, Class 3, PG III
10070*/88770*	2K-527	43-49 UN1263 Paint Related Material, Class 3, PG III
14378*	2K-530	43-49 UN1263 Paint Related Material, Class 3, PG III
10291*/88525*	2K-533	43-49 UN1263 Paint Related Material, Class 3, PG III
11522*	2K-541	43-49 UN1263 Paint Related Material, Class 3, PG III
10119*/88452*	2K-543	43-49 UN1263 Paint Related Material, Class 3, PG III
10127*/88568*	2K-544	43-49 UN1263 Paint Related Material, Class 3, PG III
10305*/87782*	2K-546	43-49 UN1263 Paint Related Material, Class 3, PG III
10151*/88541*	2K-550	43-49 UN1263 Paint Related Material, Class 3, PG III
10313*/87979*	2K-551	43-49 UN1263 Paint Related Material, Class 3, PG III
10321*/88908*	2K-553	43-49 UN1263 Paint Related Material, Class 3, PG III
10160*/88789*	2K-560	43-49 UN1263 Paint Related Material, Class 3, PG III
10330*/87677*	2K-611	43-49 UN1263 Paint Related Material, Class 3, PG III
10178*/90473*	2K-624	43-49 UN1263 Paint Related Material, Class 3, PG III
10186*/87669*	2K-632	43-49 UN1263 Paint Related Material, Class 3, PG III
10194*/90490*	2K-660	43-49 UN1263 Paint Related Material, Class 3, PG III

<b>Article Number</b>	<b>MSDS 12- 2K HS Standocryl Mixing Toners</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
14041*/15005*	HS-610	50-55 UN1263 Paint Related Material, Class 3, PG III
14050*	HS-612	50-55 UN1263 Paint Related Material, Class 3, PG III
14068*	HS-613	50-55 UN1263 Paint Related Material, Class 3, PG III
14076*	HS-622	50-55 UN1263 Paint Related Material, Class 3, PG III
14084*	HS-623	50-55 UN1263 Paint Related Material, Class 3, PG III
14092*	HS-625	50-55 UN1263 Paint Related Material, Class 3, PG III
14106*	HS-627	50-55 UN1263 Paint Related Material, Class 3, PG III
14505*	HS-629	50-55 UN1263 Paint Related Material, Class 3, PG III
14114*	HS-631	50-55 UN1263 Paint Related Material, Class 3, PG III
14122*	HS-633	50-55 UN1263 Paint Related Material, Class 3, PG III
14130*	HS-634	50-55 UN1263 Paint Related Material, Class 3, PG III
14912*	HS-643	50-55 UN1263 Paint Related Material, Class 3, PG III
14157*	HS-644	50-55 UN1263 Paint Related Material, Class 3, PG III
14165*	HS-645	50-55 UN1263 Paint Related Material, Class 3, PG III
14173*	HS-646	50-55 UN1263 Paint Related Material, Class 3, PG III
14181*	HS-650	50-55 UN1263 Paint Related Material, Class 3, PG III
14190*	HS-651	50-55 UN1263 Paint Related Material, Class 3, PG III
14548*	HS-653	50-55 UN1263 Paint Related Material, Class 3, PG III
14211*	HS-655	50-55 UN1263 Paint Related Material, Class 3, PG III
14556*	HS-659	50-55 UN1263 Paint Related Material, Class 3, PG III
14220*	HS-661	50-55 UN1263 Paint Related Material, Class 3, PG III
14238*	HS-662	50-55 UN1263 Paint Related Material, Class 3, PG III
14246*	HS-666	50-55 UN1263 Paint Related Material, Class 3, PG III
14254*	HS-669	50-55 UN1263 Paint Related Material, Class 3, PG III

<b>Article Number</b>	<b>MSDS 13- Basecoat Mixing Toners &amp; Fac Pac</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
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14017	2K Basecoat Real Black	56-68 UN1263 Paint, Class 3, PG III
24446*	Avus Galaxy	56-68 UN1263 Paint, Class 3, PG III
11603*/16151	Basecoat Deep Black	56-68 UN1263 Paint, Class 3, PG III
15145	Chrysler PB5	56-68 UN1263 Paint, Class 3, PG III
15129	Chrysler PVE	56-68 UN1263 Paint, Class 3, PG III
16001	Chrysler PVF	56-68 UN1263 Paint, Class 3, PG III
26666*	Crystal Rainbow	56-68 UN1263 Paint, Class 3, PG III
8882*	Daytona Paradise	56-68 UN1263 Paint, Class 3, PG III
16148	Ford G6	56-68 UN1263 Paint, Class 3, PG III
16164	GM 368N	56-68 UN1263 Paint, Class 3, PG III
3333*	Indianapolis Green	56-68 UN1263 Paint, Class 3, PG III
7770*	Kyalami Flash	56-68 UN1263 Paint, Class 3, PG III
25540*	Liquid Silver	56-68 UN1263 Paint, Class 3, PG III
10348/14700	MB-008	56-68 UN1263 Paint Related Material, Class 3, PG III
10763	MB-561	56-68 UN1263 Paint Related Material, Class 3, PG III
11581	MB-562	56-68 UN1263 Paint Related Material, Class 3, PG III
10895	MB-563	56-68 UN1263 Paint Related Material, Class 3, PG III
10356	MB-564	56-68 UN1263 Paint Related Material, Class 3, PG III
10372	MB-566	56-68 UN1263 Paint Related Material, Class 3, PG III
10380	MB-567	56-68 UN1263 Paint Related Material, Class 3, PG III
10402	MB-569	56-68 UN1263 Paint Related Material, Class 3, PG III
11930	MB-570	56-68 UN1263 Paint Related Material, Class 3, PG III
11948	MB-571	56-68 UN1263 Paint Related Material, Class 3, PG III
10445	MB-573	56-68 UN1263 Paint Related Material, Class 3, PG III
10453	MB-574	56-68 UN1263 Paint Related Material, Class 3, PG III
10461	MB-575	56-68 UN1263 Paint Related Material, Class 3, PG III
10470	MB-576	56-68 UN1263 Paint Related Material, Class 3, PG III
10488	MB-577	56-68 UN1263 Paint Related Material, Class 3, PG III
10500	MB-579	56-68 UN1263 Paint Related Material, Class 3, PG III
10518	MB-580	56-68 UN1263 Paint Related Material, Class 3, PG III
10526	MB-581	56-68 UN1263 Paint Related Material, Class 3, PG III
10534	MB-582	56-68 UN1263 Paint Related Material, Class 3, PG III
10542	MB-583	56-68 UN1263 Paint Related Material, Class 3, PG III
10569	MB-585	56-68 UN1263 Paint Related Material, Class 3, PG III
10577	MB-586	56-68 UN1263 Paint Related Material, Class 3, PG III
10585	MB-587	56-68 UN1263 Paint Related Material, Class 3, PG III
10593	MB-588	56-68 UN1263 Paint Related Material, Class 3, PG III
12391	MB-589	56-68 UN1263 Paint Related Material, Class 3, PG III
10631	MB-590	56-68 UN1263 Paint Related Material, Class 3, PG III
10640	MB-593	56-68 UN1263 Paint Related Material, Class 3, PG III
10658	MB-594	56-68 UN1263 Paint Related Material, Class 3, PG III
10615	MB-595	56-68 UN1263 Paint Related Material, Class 3, PG III
12383	MB-598	56-68 UN1263 Paint Related Material, Class 3, PG III
12472	MB-810	56-68 UN1263 Paint Related Material, Class 3, PG III
12375	MB-811	56-68 UN1263 Paint Related Material, Class 3, PG III
12367	MB-812	56-68 UN1263 Paint Related Material, Class 3, PG III
12634	MB-813	56-68 UN1263 Paint Related Material, Class 3, PG III
15919	MB-826	56-68 UN1263 Paint Related Material, Class 3, PG III
15927	MB-827	56-68 UN1263 Paint Related Material, Class 3, PG III
16036	MB-843	56-68 UN1263 Paint Related Material, Class 3, PG III
16044	MB-844	56-68 UN1263 Paint Related Material, Class 3, PG III
16142	MB-845	56-68 UN1263 Paint Related Material, Class 3, PG III
16143	MB-846	56-68 UN1263 Paint Related Material, Class 3, PG III
12758	MB-851	56-68 UN1263 Paint Related Material, Class 3, PG III
12626	MB-854	56-68 UN1263 Paint Related Material, Class 3, PG III
12529	MB-855	56-68 UN1263 Paint Related Material, Class 3, PG III
12880	MB-856	56-68 UN1263 Paint Related Material, Class 3, PG III
12120	MB-857	56-68 UN1263 Paint Related Material, Class 3, PG III
12359	MB-859	56-68 UN1263 Paint Related Material, Class 3, PG III
12316	MB-861	56-68 UN1263 Paint Related Material, Class 3, PG III
12308	MB-870	56-68 UN1263 Paint Related Material, Class 3, PG III
10739	MB-882	56-68 UN1263 Paint Related Material, Class 3, PG III
10712	MB-883	56-68 UN1263 Paint Related Material, Class 3, PG III
14343	MB-884	56-68 UN1263 Paint Related Material, Class 3, PG III
16109	MB-885	56-68 UN1263 Paint Related Material, Class 3, PG III
81075	Mercedes Benz DB 975	56-68 UN1263 Paint, Class 3, PG III
70626	Mercedes DB 031	56-68 UN1263 Paint, Class 3, PG III
4445*	Monte Carlo Magic	56-68 UN1263 Paint, Class 3, PG III
16095	Nissan USA C15	56-68 UN1263 Paint, Class 3, PG III
10666	PE-801	56-68 UN1263 Paint Related Material, Class 3, PG III
10674	PE-802	56-68 UN1263 Paint Related Material, Class 3, PG III
10682	PE-803	56-68 UN1263 Paint Related Material, Class 3, PG III
10690	PE-804	56-68 UN1263 Paint Related Material, Class 3, PG III
11859	PE-805	56-68 UN1263 Paint Related Material, Class 3, PG III
12111	PE-806	56-68 UN1263 Paint Related Material, Class 3, PG III
12707	PE-821	56-68 UN1263 Paint Related Material, Class 3, PG III
12650	PE-823	56-68 UN1263 Paint Related Material, Class 3, PG III
12677	PE-824	56-68 UN1263 Paint Related Material, Class 3, PG III
12669	PE-825	56-68 UN1263 Paint Related Material, Class 3, PG III

12596	PE-828	56-68 UN1263 Paint Related Material, Class 3, PG III
12588	PE-829	56-68 UN1263 Paint Related Material, Class 3, PG III
12553	PE-831	56-68 UN1263 Paint Related Material, Class 3, PG III
12871	PE-836	56-68 UN1263 Paint Related Material, Class 3, PG III
10992	PE-839	56-68 UN1263 Paint Related Material, Class 3, PG III
11220	PE-841	56-68 UN1263 Paint Related Material, Class 3, PG III
81911	Porsche 3C4/3C5	56-68 UN1263 Paint, Class 3, PG III
1110*	Silverstone Blue	56-68 UN1263 Paint, Class 3, PG III
15137	VW C4Z	56-68 UN1263 Paint, Class 3, PG III
88479	VW C5S	56-68 UN1263 Paint, Class 3, PG III
88401	VW C7W	56-68 UN1263 Paint, Class 3, PG III
16172	Toyota 3R2	56-68 UN1263 Paint, Class 3, PG III
16173	VW C9Y	56-68 UN1263 Paint, Class 3, PG III
15110	VW K6L	56-68 UN1263 Paint, Class 3, PG III

<b>Article Number</b>	<b>MSDS 14- Standohyd Basecoat Mixing Colors</b>	<b>Pages Proper Shipping Name, Class Packing Group</b>
60671*	Jet Black/BL	69-77 not regulated
55670	W-009	69-77 not regulated
55376	W-301	69-77 not regulated
55384	W-302	69-77 not regulated
55406	W-303	69-77 not regulated
55400	W-304	69-77 not regulated
55414	W-305	69-77 not regulated
52016	W-306	69-77 not regulated
55287	W-310	69-77 not regulated
52121/50230	W-311	69-77 not regulated
55627/ 55740	W-312	69-77 not regulated
52130	W-313	69-77 not regulated
55450	W-321	69-77 not regulated
52148	W-323	69-77 not regulated
55457	W-324	69-77 not regulated
55440	W-325	69-77 not regulated
52210	W-326	69-77 not regulated
52202	W-327	69-77 not regulated
52024	W-328	69-77 not regulated
55360	W-329	69-77 not regulated
52032	W-331	69-77 not regulated
52040	W-336	69-77 not regulated
52059	W-339	69-77 not regulated
52067	W-341	69-77 not regulated
52068	W-343	69-77 not regulated
52069	W-344	69-77 not regulated
52070	W-345	69-77 not regulated
52071	W-346	69-77 not regulated
52075	W-351	69-77 not regulated
52113	W-355	69-77 not regulated
55110	W-356	69-77 not regulated
55597	W-357	69-77 not regulated
55600	W-358	69-77 not regulated
55210	W-359	69-77 not regulated
55112	W-361	69-77 not regulated
55015	W-363	69-77 not regulated
55240	W-364	69-77 not regulated
55050	W-365	69-77 not regulated
55295	W-366	69-77 not regulated
55045	W-367	69-77 not regulated
52083	W-368	69-77 not regulated
55276	W-369	69-77 not regulated
55007/55694	W-370	69-77 not regulated
55643/ 55708	W-372	69-77 not regulated
55244	W-373	69-77 not regulated
55024	W-374	69-77 not regulated
55163	W-376	69-77 not regulated
52172	W-377	69-77 not regulated
55690	W-378	69-77 not regulated
52180	W-379	69-77 not regulated
52091	W-380	69-77 not regulated
55249	W-382	69-77 not regulated
55228	W-383	69-77 not regulated
52105	W-384	69-77 not regulated
52156	W-385	69-77 not regulated
55619	W-386	69-77 not regulated
55171	W-388	69-77 not regulated
55180	W-389	69-77 not regulated
55333/55716	W-390	69-77 not regulated
55317	W-393	69-77 not regulated
55350/55724	W-394	69-77 not regulated
55341/55732	W-395	69-77 not regulated
55325	W-398	69-77 not regulated

52199  
55362

W-399  
W-362

69-77 not regulated  
69-77 not regulated

**Article Numbers**

02080045  
02014335  
02016010  
02014670  
/02016150

**Misc. Products**

Standohyd Color Blend  
Stabilizer Transparent - Mix 599  
Standoflex Low VOC Plastic Cleaner  
Standohyd Sanding Paste  
Basecoat Colorless

**Pages Proper Shipping Name, Class Packing Group**

78-82 not regulated  
78-82 UN1263 Paint, Class 3, PG III  
78-82 not regulated  
78-82 not regulated  
78-82 UN1263 Paint, Class 3, PGIII





**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standox  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **1 - Standox® 2K Clears**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: Standocryl® 2K Premium Clear (16252), Standocryl® 2K Matt Clear 007 (16163), Standocryl® VOC Platinum Clear (16161), Standocryl® 2.1 HS Clear (16156), Standocryl® 2K Clear 15-60 (15900), Standocryl® 2K HS Clear (14580), Standocryl® 2K Plastic Clear Satin Gloss (12227), Standocryl® 2.1 Clear (10020)

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Acrylic resin-B	98613-27-5	None	A None O None
Amorphous silica	7631-86-9	None	A 10.0 mg/m3 Total Dust O 20.0 mppcf D 3.0 mg/m3
Amorphous silica - precipitated	112926-00-8	None	A 10.0 mg/m3 O 15.0 mg/kg Total Dust O 5.0 mg/m3 TWA Respirable Dust D 3.0 mg/m3 Respirable Dust
Aromatic hydrocarbon	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
Ethoxypropyl acetate	98516-30-4	2.3	A None O None
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
1,2,4-trimethyl benzene	95-63-6	7.0@44.4°C	A 25.0 ppm O 25.0 ppm
1,3,5-trimethyl benzene	108-67-8	None	A 25.0 ppm O None
2-butoxyethyl acetate	112-07-2	0.4	A 130.0 mg/m3 D 10.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA O None
4-chlorobenzotrifluoride	98-56-6	7.6@25.0°C	D 20.0 ppm 8 & 12 hour TWA A None O None
Acetone	67-64-1	247.0@68.0°F	A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour TWA
Acrylic polymer-A	NotAvail	None	A None O None
Acrylic polymer-B	162568-42-5	None	A None O None
Acrylic resin-A	NotAvail	None	A None O None
Isododecane	31807-55-3	None	A None O None
Methyl amyl ketone	110-43-0	3.4	A 50.0 ppm O 100.0 ppm
Methyl isoamyl ketone	110-12-3	5.3	A None O None
Methyl isobutyl ketone	108-10-1	15.1	A 75.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm
Polyacrylic resin	NotAvail	None	A None O None
Polycaprolactone oligomer	35484-93-6	None	A None O None
Polyester resin-A	NotAvail	None	A None O None
Polyester resin-B	129922-22-1	None	A None O None
Propylene glycol monomethyl ether acetate			



INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None
Substituted benzotriazole	127519-17-9	0.1	S 4.0 mg/m3 A None O None
Ultravioletabsorber	NotAvail	None	A None O None
Waxes	NotAvail	10.9	A None O None
Xylene	1330-20-7	8.0@25.0° C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

### SECTION 3. Hazards identification

#### Potential Health Effects:

##### Inhalation:

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

##### Ingestion:

May result in gastrointestinal distress.

##### Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

#### Other Potential Health Effects in addition to those listed above:

##### 4-chlorobenzotrifluoride

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin. Prolonged or repeated exposure may cause damage to any of the following organs/systems: kidneys, liver, thyroid. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Ingestion may cause any of the following: gastrointestinal irritation. Eye contact may cause any of the following: permanent eye injury. Inhalation may cause any of the following: stupor (central nervous system depression), respiratory tract irritation.

##### Acetone

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

##### Acrylic resin-B

Skin or eye contact may cause any of the following: irritation.

##### Aromatic hydrocarbon

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

##### Butyl acetate

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

##### Ethylbenzene

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

##### Methyl isoamyl ketone

Extremely high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney and adrenal gland. In addition liver injury was observed.

##### Methyl isobutyl ketone

The following medical conditions may be aggravated by exposure: asthma, respiratory disease, eye disorders, pulmonary conditions, skin disorders. Repeated or prolonged skin contact may cause any of the following: dryness, cracking of the skin, defatting. Inhalation may cause any of the following: dizziness, stupor (central nervous system depression), drowsiness, respiratory tract irritation.

##### Propylene glycol monomethyl ether acetate

Recurrent overexposure may result in liver and kidney injury.

##### Substituted benzotriazole

The following medical conditions may be aggravated by exposure: jaundice, liver disease. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver, thyroid, upper respiratory system.

##### Xylene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.



#### SECTION 4. First aid measures

##### First Aid Procedures:

###### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

###### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

###### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

#### SECTION 5. Fire-fighting measures

##### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

##### Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

##### Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

##### Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

##### Special Protective Equipment and Fire Fighting Procedures:

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

##### Additional advice:

Cool closed containers exposed to fire with water spray.

#### SECTION 6. Accidental release measures

##### Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to

allow CO2 to vent. After 48 hours, material may be sealed and disposed of properly.

##### Ecological information:

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

#### SECTION 7. Handling and storage

##### Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

##### Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

#### SECTION 8. Exposure controls/personal protection

##### Engineering controls and work practices:

###### Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

###### Respiratory protection:

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

###### Protective equipment:

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

###### Skin and body protection:

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.





## SECTION 9. Physical and chemical properties

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	56 – 170 °C
Approx. Freezing Range ( °C)	-74 – -35 °C
Gallon Weight (lbs/gal)	8 - 8.91
Specific Gravity	0.96 - 1.07
Percent Volatile By Volume	46.69 - 57.47
Percent Volatile By Weight	40.97 - 50.58
Percent Solids By Volume	42.53 - 53.32
Percent Solids By Weight	49.42 - 59.03

## SECTION 10. Stability and reactivity

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

## SECTION 11. Additional Information

**10020™** 4-chlorobenzotrifluoride, Acetone, Acrylic polymer-A, Methyl amyl ketone, Polyester resin-A**GAL WT: 8.91 WT PCT SOLIDS: 49.86 VOL PCT SOLIDS: 47.31****SOLVENT DENSITY: 8.48 VOC LE: 2.3 VOC AP: 1.6****FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO****12227™** 1,2,4-trimethyl benzene(2%\*), Acrylic resin-B, Amorphous silica - precipitated, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.4%\* @), Polyester resin-A, Propylene glycol monomethyl ether acetate, Xylene(6%\* @)**GAL WT: 8.70 WT PCT SOLIDS: 51.28 VOL PCT SOLIDS: 42.53****SOLVENT DENSITY: 7.36 VOC LE: 4.2 VOC AP: 4.2****FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES****14580™** 1,2,4-trimethyl benzene(6%\*), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethoxypropyl acetate, Ethylbenzene(1.9%\* @), Polyacrylic resin, Xylene(8%\* @)**GAL WT: 8.43 WT PCT SOLIDS: 59.03 VOL PCT SOLIDS: 53.32****SOLVENT DENSITY: 7.35 VOC LE: 3.5 VOC AP: 3.5****FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES****15900™** Acrylic resin-A, Acrylic resin-A, Butyl acetate, Ethylbenzene(5.2%\* @), Isododecane, Methyl amyl ketone, Methyl isoamyl ketone, Methyl isobutyl ketone(3%\* @), Polyester resin-A, Ultravioletabsorber, Xylene(21%\* @)**GAL WT: 8.07 WT PCT SOLIDS: 49.42 VOL PCT SOLIDS: 42.83****SOLVENT DENSITY: 7.12 VOC LE: 4.1 VOC AP: 4.1****FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES****16156™** 4-chlorobenzotrifluoride, Acetone, Acrylic polymer-A, Acrylic resin-A, Butyl acetate, Methyl amyl ketone, Polyester resin-B, Substituted benzotriazole**GAL WT: 8.87 WT PCT SOLIDS: 52.27 VOL PCT SOLIDS: 50.03****SOLVENT DENSITY: 8.48 VOC LE: 2.3 VOC AP: 1.7****FLASH POINT: 20 °F to below 73 °F H: 1 F: 3 R: 1 OSHA STORAGE: IB****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO****16161™** 1,2,4-trimethyl benzene(3%\*), Acrylic resin-A, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(0.8%\* @), Methyl isoamyl ketone, Polycaprolactone oligomer, Polyester resin-A, Xylene(3%\* @)**GAL WT: 8.00 WT PCT SOLIDS: 49.89 VOL PCT SOLIDS: 42.70****SOLVENT DENSITY: 7.33 VOC LE: 4.0 VOC AP: 4.0****FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES****16163™** 1,2,4-trimethyl benzene(2%\*), 2-butoxyethyl acetate(3% @), Amorphous silica, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(0.8%\* @), Polyacrylic resin, Polyester resin-A, Waxes, Xylene(3%\* @)**GAL WT: 8.61 WT PCT SOLIDS: 54.94 VOL PCT SOLIDS: 47.53****SOLVENT DENSITY: 7.48 VOC LE: 3.9 VOC AP: 3.9****FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES****16252™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic polymer-B, Acrylic resin-A, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(0.3%\* @), Methyl isoamyl ketone, Polyester resin-A, Xylene(1%\* @)**GAL WT: 8.27 WT PCT SOLIDS: 57.58 VOL PCT SOLIDS: 50.22****SOLVENT DENSITY: 7.01 VOC LE: 3.5 VOC AP: 3.5****FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES****Footnotes:****TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.





SECTION 1. Identification of the substance/preparation and of the company/undertaking		INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS																																																																												
Manufacturer:	Standex 47802 W. Anchor Ct. Plymouth, MI, 48170	Hydrous magnesium silicate	14807-96-6	<0.0	A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA																																																																												
Telephone:	Product information: (800) 551-9296 Medical emergency: (800) 441-3637 Transportation emergency: (800) 424-9300 (CHEMTREC)				A 2.0 mg/m3 Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA Respirable Dust D 0.1 mg/m3 8 & 12 hour TWA O None																																																																												
Product:	<b>2 - Standox® Etch Primers</b>	Iron hydroxide	20344-49-4	None	A None O None																																																																												
DOT Shipping Name:	See Index.	Isobutyl alcohol	78-83-1	9.7@22.0°C	A 50.0 ppm O 100.0 ppm																																																																												
Hazardous Materials Information:	See Section 10.	Isopropyl alcohol	67-63-0	48.0	A 400.0 ppm 15 min STEL A 200.0 ppm O 400.0 ppm D 200.0 ppm 8 & 12 hour TWA																																																																												
Products covered in this document include: Standox® Low VOC Etch Primer (16189), Standox® Etching Adhesion Primer (16167), Standox® 1K Primer Filler (Aerosol) (16141), Standox® 1K Primer Filler (16134)																																																																																	
<table border="0"> <thead> <tr> <th colspan="6">SECTION 2. Composition/information on ingredients</th> </tr> <tr> <th>INGREDIENTS</th> <th>CAS #</th> <th>VAPOR PRESSURE</th> <th>EXPOSURE LIMITS</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>4-chlorobenzotrifluoride</td> <td>98-56-6</td> <td>7.6@25.0°C</td> <td>D 20.0 ppm 8 &amp; 12 hour TWA A None O None</td> <td>N-propanol</td> <td>71-23-8</td> <td>19.0</td> <td>A 100.0 ppm O 250.0 ppm 15 min STEL O 200.0 ppm Skin D 200.0 ppm</td> </tr> <tr> <td>Acetone</td> <td>67-64-1</td> <td>247.0@68.0°F</td> <td>A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 &amp; 12 hour TWA</td> <td>Phosphoric acid, calcium salt</td> <td>7757-93-9</td> <td>None</td> <td>A None O None</td> </tr> <tr> <td>Amorphous silica</td> <td>7631-86-9</td> <td>None</td> <td>A 10.0 mg/m3 Total Dust O 20.0 mppcf D 3.0 mg/m3</td> <td>Polyvinyl acetates</td> <td>63148-65-2</td> <td>&lt;0.0</td> <td>A None O None</td> </tr> <tr> <td>Butane</td> <td>106-97-8</td> <td>999.9</td> <td>A 1000.0 ppm O None</td> <td>Polyvinyl butyral resin</td> <td>27360-07-2</td> <td>&lt;0.0</td> <td>A None O None</td> </tr> <tr> <td>Butyl acetate</td> <td>123-86-4</td> <td>10.0</td> <td>A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm</td> <td>Polyvinyl butyraldehyde</td> <td>63148-65-2</td> <td>None</td> <td>A None O None</td> </tr> <tr> <td>Carbon black</td> <td>1333-86-4</td> <td>None</td> <td>A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 &amp; 12 hour TWA</td> <td>Propane</td> <td>74-98-6</td> <td>109.7@70.0°F</td> <td>A None O None</td> </tr> <tr> <td>Epoxy resin</td> <td>25068-38-6</td> <td>2.0</td> <td>A None O None</td> <td>Propylene glycol methyl ether</td> <td>107-98-2</td> <td>11.2@77.0°F</td> <td>A 150.0 ppm 15 min STEL A 100.0 ppm O None</td> </tr> <tr> <td>Ethylbenzene</td> <td>100-41-4</td> <td>7.0</td> <td>A 125.0 ppm 15 min STEL</td> <td>Propylene glycol monomethyl ether acetate</td> <td>108-65-6</td> <td>3.8</td> <td>D 10.0 ppm 8 &amp; 12 hour TWA A None O None</td> </tr> </tbody> </table>						SECTION 2. Composition/information on ingredients						INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS			4-chlorobenzotrifluoride	98-56-6	7.6@25.0°C	D 20.0 ppm 8 & 12 hour TWA A None O None	N-propanol	71-23-8	19.0	A 100.0 ppm O 250.0 ppm 15 min STEL O 200.0 ppm Skin D 200.0 ppm	Acetone	67-64-1	247.0@68.0°F	A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour TWA	Phosphoric acid, calcium salt	7757-93-9	None	A None O None	Amorphous silica	7631-86-9	None	A 10.0 mg/m3 Total Dust O 20.0 mppcf D 3.0 mg/m3	Polyvinyl acetates	63148-65-2	<0.0	A None O None	Butane	106-97-8	999.9	A 1000.0 ppm O None	Polyvinyl butyral resin	27360-07-2	<0.0	A None O None	Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm	Polyvinyl butyraldehyde	63148-65-2	None	A None O None	Carbon black	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA	Propane	74-98-6	109.7@70.0°F	A None O None	Epoxy resin	25068-38-6	2.0	A None O None	Propylene glycol methyl ether	107-98-2	11.2@77.0°F	A 150.0 ppm 15 min STEL A 100.0 ppm O None	Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL	Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None
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INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Resin	NotAvail	None	A None O None
Titanium dioxide	13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA
Zinc oxide	1314-13-2	None	A 10.0 mg/m3 15 min STEL Respirable Dust A 2.0 mg/m3 Respirable Dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

**Butane**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: cardiovascular system. Eye contact may cause any of the following: swelling, reversible eye injury. This gas is a simple asphyxiant, which at high concentrations can reduce the amount of oxygen available for breathing.

**Butyl acetate**

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

**Carbon black**

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease.  
WARNING: This chemical is known to the State of California to cause cancer.

**Epoxy resin**

The following medical conditions may be aggravated by exposure: skin disorders. Vapor may be irritating at elevated temperatures. Repeated or prolonged skin contact may cause any of the following: allergic contact dermatitis.

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

**Ethylbenzene**

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.  
WARNING: This chemical is known to the State of California to cause cancer.

**SECTION 3. Hazards identification**

**Potential Health Effects:**

**Inhalation:**

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**Ingestion:**

May result in gastrointestinal distress.

**Skin or eye contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**Other Potential Health Effects in addition to those listed above:**

**4-chlorobenzotrifluoride**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin. Prolonged or repeated exposure may cause damage to any of the following organs/systems: kidneys, liver, thyroid. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Ingestion may cause any of the following: gastrointestinal irritation. Eye contact may cause any of the following: permanent eye injury. Inhalation may cause any of the following: stupor (central nervous system depression), respiratory tract irritation.

**Acetone**

**Isobutyl alcohol**

Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause irritation of the mucous membranes. May cause abnormal liver function. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: bone marrow, liver. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns.

**Isopropyl alcohol**

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

**N-butyl alcohol**

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

**N-propanol**

Has shown mutagenic activity in laboratory cell culture tests. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause abnormal liver function. Can be absorbed





through the skin in harmful amounts.

**Propane**

Skin or eye contact with cold gas, or liquid or solid material may cause severe frostbite. This gas is a simple asphyxiant, which at high concentrations can reduce the amount of oxygen available for breathing.

**Propylene glycol methyl ether**

Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

**Propylene glycol monomethyl ether acetate**

Recurrent overexposure may result in liver and kidney injury.

**Titanium dioxide**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m3 respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m3 level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

**Xylene**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

**SECTION 4. First aid measures**

**First Aid Procedures:**

**Inhalation:**

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

**Ingestion:**

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

**Skin or eye contact:**

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

**SECTION 5. Fire-fighting measures**

**Hazardous combustion products:**

Fire will produce dense black smoke containing hazardous combustion

products (see heading 10). Exposure to decomposition products may be a hazard to health.

**Fire and Explosion Hazards:**

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**Extinguishing Media:**

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

**Fire Fighting Procedures:**

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

**Special Protective Equipment and Fire Fighting Procedures:**

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

**Additional advice:**

Cool closed containers exposed to fire with water spray.

**SECTION 6. Accidental release measures**

**Procedures for cleaning up spills or leaks:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

**Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

**SECTION 7. Handling and storage**

**Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze. CONTENTS UNDER PRESSURE. Clean nozzle and cap container after each use. Do not puncture or incinerate (burn) container. Exposure to heat or prolonged exposure to sun may cause bursting.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection**





**Engineering controls and work practices:**

**Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	-42 – 200 °C
Approx. Freezing Range ( °C)	-127 – 205 °C
Gallon Weight (lbs/gal)	6.93 - 9.28
Specific Gravity	0.83 - 1.11
Percent Volatile By Volume	77.15 - 91.36
Percent Volatile By Weight	56.48 - 80.53
Percent Solids By Volume	8.65 - 22.85
Percent Solids By Weight	19.47 - 43.52

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**16134™** Amorphous silica, Carbon black(0.1%), Epoxy resin, Ethylbenzene(0.4%\* @), Hydrous magnesium silicate, Isobutyl alcohol, N-propanol, Polyvinyl acetates, Propylene glycol methyl ether, Titanium dioxide(18.2%), Xylene(1%\* @)

**GAL WT: 9.28 WT PCT SOLIDS: 43.52 VOL PCT SOLIDS: 22.85**

**SOLVENT DENSITY: 6.78 VOC LE: 5.2 VOC AP: 5.2**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16141™** Acetone, Amorphous silica, Butane, Epoxy resin, Ethylbenzene(0.2%\* @), Hydrous magnesium silicate, Isobutyl alcohol, N-propanol, Polyvinyl acetates, Propane, Propylene glycol methyl ether, Propylene glycol monomethyl ether acetate, Titanium dioxide(8.7%)

**GAL WT: 6.93 WT PCT SOLIDS: 20.86 VOL PCT SOLIDS: 8.65**

**SOLVENT DENSITY: 6.00 VOC LE: 5.1 VOC AP: 3.4**

**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16167™** Amorphous silica, Butyl acetate, Carbon black(0.3%), Epoxy resin, Ethylbenzene(1.2%\* @), Hydrous magnesium silicate, Iron hydroxide, N-butyl alcohol(23%\*), N-propanol, Phosphoric acid, calcium salt, Polyvinyl butyraldehyde, Titanium dioxide(1.4%), Xylene(5%\* @), Zinc oxide(5%\*)

**GAL WT: 8.16 WT PCT SOLIDS: 29.29 VOL PCT SOLIDS: 16.70**

**SOLVENT DENSITY: 6.90 VOC LE: 5.8 VOC AP: 5.8**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16189™** 4-chlorobenzotrifluoride, Acetone, Carbon black(0.2%), Epoxy resin, Hydrous magnesium silicate, Isopropyl alcohol, N-butyl alcohol(5%\*), Polyvinyl butyral resin, Resin, Titanium dioxide(1.5%), Zinc oxide(3%\*)

**GAL WT: 8.22 WT PCT SOLIDS: 19.47 VOL PCT SOLIDS: 11.63**

**SOLVENT DENSITY: 7.47 VOC LE: 3.8 VOC AP: 1.0**

**FLASH POINT: Below 20 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.





SECTION 1. Identification of the substance/preparation and of the company/undertaking		INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS		
Manufacturer: Standox 47802 W. Anchor Ct. Plymouth, MI, 48170		Black iron oxide	1317-61-9	None	Respirable Dust A None A 10.0 mg/m3 inhalable dust O 15.0 mg/m3		
		Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm		
Telephone: Product information: (800) 551-9296 Medical emergency: (800) 441-3637 Transportation emergency: (800) 424-9300 (CHEMTREC)		Carbon black	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA		
		Dolomite	16389-88-1	None	A None O None		
DOT Shipping Name: See Index.		Ethoxypropyl acetate	98516-30-4	2.3	A None O None		
Hazardous Materials Information: See Section 10.		Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA		
		Ethylene glycol monobutyl ether	111-76-2	0.6	A 20.0 ppm O 50.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA		
Products covered in this document include: Standox® Low VOC Sealer (16182), Standox® 2K HS System Filler Dark Gray (16170), Standox® 2K Nonstop Primer Filler White (16154), Standox® 2K Nonstop Primer Filler Dark Gray (16153), Standox® 2K Nonstop Primer Filler Medium Gray (15331), Standox® 2K HS System Filler Light Gray (15161), Standox® 2K Transparent Adhesion Sealer (15048), Standohyd® 1K Primer Surfacer Gray (14440), Standox® 2.1 Filler (11999)							
SECTION 2. Composition/information on ingredients							
INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS				
1,2,4-trimethyl benzene	95-63-6	7.0@44.4°C	A 25.0 ppm O 25.0 ppm	Hydrous magnesium silicate	14807-96-6	<0.0	A 2.0 mg/m3 Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA
4-chlorobenzotrifluoride	98-56-6	7.6@25.0°C	D 20.0 ppm 8 & 12 hour TWA A None O None	Kaolin	1332-58-7	None	Respirable Dust O 15.0 mg/m3 TWA Total Dust O 5.0 mg/m3 TWA Respirable Dust
Acrylic resin	98613-27-5	None	A None O None	Latex, acrylics	68414-04-0	23.0	A None O None
Acrylic resins, curing at ambient temp.	83770-98-3	13.0	A None O None	Magnesite	546-93-0	None	A 10.0 mg/m3 O None
Amorphous silica	7631-86-9	None	A 10.0 mg/m3 Total Dust O 20.0 mppcf D 3.0 mg/m3	Methoxy butyl acetate	4435-53-4	None	A None O None
Aromatic hydrocarbon	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None	Nitrocellulose			A 10.0 mg/m3 O None
Barium sulfate	7727-43-7	<0.0	O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 8 & 12 hour TWA				





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Polyacrylic resin	9004-70-0	9.0	A None O None
	NotAvail	None	A None O None
Quartz-crystalline silica	14808-60-7	None	A 25.0 ug/m3 Respirable Dust O 0.3 mg/m3 Total Dust O 0.1 mg/m3 Respirable Dust D 0.1 mg/m3 Respirable Dust
Titanium dioxide	13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
Water	7732-18-5	23.6	A None O None
Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA
Zinc oxide	1314-13-2	None	A 10.0 mg/m3 15 min STEL Respirable Dust A 2.0 mg/m3 Respirable Dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
Zinc phosphate	7779-90-0	None	O 5.0 mg/m3 Respirable Dust A None

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

### SECTION 3. Hazards identification

#### Potential Health Effects:

##### Inhalation:

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure.

Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

##### Ingestion:

May result in gastrointestinal distress.

##### Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

#### Other Potential Health Effects in addition to those listed above:

##### 4-chlorobenzotrifluoride

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin. Prolonged or repeated exposure may cause damage to any of the following organs/systems: kidneys, liver, thyroid. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Ingestion may cause any of the following: gastrointestinal irritation. Eye contact may cause any of the following: permanent eye injury. Inhalation may cause any of the following: stupor (central nervous system depression), respiratory tract irritation.

##### Acrylic resin

Skin or eye contact may cause any of the following: irritation.

##### Aromatic hydrocarbon

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

##### Butyl acetate

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

##### Carbon black

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease.

WARNING: This chemical is known to the State of California to cause cancer.

##### Ethylbenzene

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

##### Ethylene glycol monobutyl ether

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, central nervous system, eyes, gastrointestinal system, kidneys, liver, respiratory system, skin. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. If absorbed through the skin, may be: harmful.



#### **Kaolin**

The following medical conditions may be aggravated by exposure: asthma, dermatitis. Repeated or prolonged inhalation may cause any of the following: lung injury.

#### **Nitrocellulose**

The following medical conditions may be aggravated by overexposure: liver disease, kidney disorders.

#### **Quartz-crystalline silica**

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury.

WARNING: This chemical is known to the State of California to cause cancer.

#### **Titanium dioxide**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

#### **Xylene**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

### **SECTION 4. First aid measures**

#### **First Aid Procedures:**

##### **Inhalation:**

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

##### **Ingestion:**

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

##### **Skin or eye contact:**

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

### **SECTION 5. Fire-fighting measures**

#### **Hazardous combustion products:**

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

#### **Fire and Explosion Hazards:**

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

#### **Extinguishing Media;**

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

#### **Fire Fighting Procedures:**

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

#### **Special Protective Equipment and Fire Fighting Procedures:**

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

#### **Additional advice:**

Cool closed containers exposed to fire with water spray.

### **SECTION 6. Accidental release measures**

#### **Procedures for cleaning up spills or leaks:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO<sub>2</sub> to vent. After 48 hours, material may be sealed and disposed of properly.

#### **Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

### **SECTION 7. Handling and storage**

#### **Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.



**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection**

**Engineering controls and work practices:**

**Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	100 – 171 °C
Approx. Freezing Range ( °C)	-85 – -35 °C
Gallon Weight (lbs/gal)	11.57 - 14.84
Specific Gravity	1.39 - 1.78
Percent Volatile By Volume	48.10 - 59.78
Percent Volatile By Weight	26.07 - 42.56
Percent Solids By Volume	40.22 - 51.90
Percent Solids By Weight	57.44 - 73.93

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**11999™** 4-chlorobenzotrifluoride, Acrylic resin, Aromatic hydrocarbon, Barium sulfate, Carbon black(0.1%), Dolomite, Ethylbenzene(0.3%\*), Hydrous magnesium silicate, Kaolin, Titanium dioxide(14.4%), Xylene(1%\*), Zinc phosphate(7%\*)  
**GAL WT: 14.84 WT PCT SOLIDS: 69.95 VOL PCT SOLIDS: 51.90**  
**SOLVENT DENSITY: 9.29 VOC LE: 2.2 VOC AP: 1.6**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14440™** Barium sulfate, Carbon black(0.1%), Ethylene glycol monobutyl ether(6%\*), Hydrous magnesium silicate, Kaolin, Latex, acrylics, Magnesite, Quartz-crystalline silica(1.8%), Titanium dioxide(11.2%), Water, Zinc phosphate(9%\*)  
**GAL WT: 11.68 WT PCT SOLIDS: 57.44 VOL PCT SOLIDS: 40.22**  
**SOLVENT DENSITY: 8.20 VOC LE: 1.5 VOC AP: 0.7**  
**FLASH POINT: 141 °F - 200 °F H: 2 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**15048™** 1,2,4-trimethyl benzene(2%\*), Amorphous silica, Aromatic hydrocarbon, Barium sulfate, Butyl acetate, Ethylbenzene(2.4%\*), Hydrous magnesium silicate, Polyacrylic resin, Xylene(9%\*)  
**GAL WT: 11.57 WT PCT SOLIDS: 66.87 VOL PCT SOLIDS: 47.50**  
**SOLVENT DENSITY: 7.29 VOC LE: 3.8 VOC AP: 3.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**15161™** 1,2,4-trimethyl benzene(2%\*), Amorphous silica, Aromatic hydrocarbon, Butyl acetate, Dolomite, Ethylbenzene(1.7%\*), Hydrous magnesium silicate, Kaolin, Magnesite, Polyacrylic resin, Titanium dioxide(10.0%), Xylene(7%\*), Zinc phosphate(9%\*)  
**GAL WT: 12.56 WT PCT SOLIDS: 69.98 VOL PCT SOLIDS: 48.31**  
**SOLVENT DENSITY: 7.27 VOC LE: 3.8 VOC AP: 3.7**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**15331™** Acrylic resins, curing at ambient temp., Aromatic hydrocarbon, Black iron oxide, Butyl acetate, Ethoxypropyl acetate, Ethylbenzene(1.0%\*), Hydrous magnesium silicate, Kaolin, Magnesite, Methoxy butyl acetate, Nitrocellulose, Titanium dioxide(10.4%), Xylene(4%\*), Zinc oxide(3%\*), Zinc phosphate(10%\*)  
**GAL WT: 13.05 WT PCT SOLIDS: 70.12 VOL PCT SOLIDS: 47.30**  
**SOLVENT DENSITY: 7.37 VOC LE: 3.9 VOC AP: 3.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**16153™** Acrylic resins, curing at ambient temp., Aromatic hydrocarbon, Butyl acetate, Carbon black(0.9%), Ethoxypropyl acetate, Ethylbenzene(1.0%\*), Hydrous magnesium silicate, Kaolin, Magnesite, Methoxy butyl acetate, Nitrocellulose, Titanium dioxide(13.0%), Xylene(4%\*), Zinc oxide(3%\*), Zinc phosphate(10%\*)  
**GAL WT: 13.06 WT PCT SOLIDS: 70.42 VOL PCT SOLIDS: 47.81**





**SOLVENT DENSITY: 7.37 VOC LE: 3.8 VOC AP: 3.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**  
**IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**16154™** Acrylic resins, curing at ambient temp., Aromatic hydrocarbon, Butyl acetate, Ethoxypropyl acetate, Ethylbenzene(1.0%\* @), Hydrous magnesium silicate, Kaolin, Magnesite, Methoxy butyl acetate, Nitrocellulose, Titanium dioxide(16.6%), Xylene(4%\* @), Zinc oxide(3%\*), Zinc phosphate(10%\*)

**GAL WT: 13.82 WT PCT SOLIDS: 73.93 VOL PCT SOLIDS: 51.39**  
**SOLVENT DENSITY: 7.38 VOC LE: 3.6 VOC AP: 3.6**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**  
**IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**16170™** 1,2,4-trimethyl benzene(2%\*), Amorphous silica, Aromatic hydrocarbon, Black iron oxide, Butyl acetate, Dolomite, Ethylbenzene(1.7%\* @), Hydrous magnesium silicate, Kaolin, Magnesite, Polyacrylic resin, Titanium dioxide(5.2%), Xylene(7%\* @), Zinc phosphate(10%\*)

**GAL WT: 12.72 WT PCT SOLIDS: 70.65 VOL PCT SOLIDS: 48.84**  
**SOLVENT DENSITY: 7.27 VOC LE: 3.7 VOC AP: 3.7**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 1 OSHA STORAGE:**  
**IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**16182™** 4-chlorobenzotrifluoride, Acrylic resin, Aromatic hydrocarbon, Barium sulfate, Butyl acetate, Carbon black(0.1%), Dolomite, Ethylbenzene(0.3%\* @), Hydrous magnesium silicate, Kaolin, Titanium dioxide(14.4%), Xylene(1%\* @), Zinc phosphate(7%\*)

**GAL WT: 14.84 WT PCT SOLIDS: 69.95 VOL PCT SOLIDS: 51.90**  
**SOLVENT DENSITY: 9.29 VOC LE: 2.2 VOC AP: 1.6**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.







SECTION 1. Identification of the substance/preparation and of the company/undertaking		INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Manufacturer:	Standox 47802 W. Anchor Ct. Plymouth, MI, 48170	Hydrous magnesium silicate	14807-96-6	None	A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
Telephone:	Product information: (800) 551-9296 Medical emergency: (800) 441-3637 Transportation emergency: (800) 424-9300 (CHEMTREC)				A 2.0 mg/m3 Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA Respirable Dust D 0.1 mg/m3 8 & 12 hour TWA O None
Product:	<b>4 - Standoflex® Plastic Primers</b>	Titanium dioxide	13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
DOT Shipping Name:	See Index.	Vinyl resin	63148-65-2	None	A None O None
Hazardous Materials Information:	See Section 10.	Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA
Products covered in this document include: Standoflex® Plastic Primer Silver - Aerosol (14408), Standoflex® Plastic Primer Silver (12065), Standoflex® 2K Plastic Primer Surfacer (11816)					

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
1,2,4-trimethyl benzene	95-63-6	7.0@44.4°C	A 25.0 ppm O 25.0 ppm
Acrylic resin	153699-25-3	None	A None O None
Aromatic hydrocarbon	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None
Barium sulfate	7727-43-7	None	O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 8 & 12 hour TWA Respirable Dust A None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
Chlorinated paraffin	68609-36-9	8.6	A None O None
Dimethyl ether	115-10-6	None	A 1000.0 ppm TWA O None
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

**SECTION 3. Hazards identification**

**Potential Health Effects:**

**Inhalation:**

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**Ingestion:**

May result in gastrointestinal distress.

**Skin or eye contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**Other Potential Health Effects in addition to those listed above:**

**Aromatic hydrocarbon**

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**Butyl acetate**





May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

#### Ethylbenzene

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.  
WARNING: This chemical is known to the State of California to cause cancer.

#### Titanium dioxide

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

#### Xylene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

### SECTION 4. First aid measures

#### First Aid Procedures:

##### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

##### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

##### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

### SECTION 5. Fire-fighting measures

#### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

#### Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

#### Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

#### Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

#### Special Protective Equipment and Fire Fighting Procedures:

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

#### Additional advice:

Cool closed containers exposed to fire with water spray.

### SECTION 6. Accidental release measures

#### Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

#### Ecological information:

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

### SECTION 7. Handling and storage

#### Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze. CONTENTS UNDER PRESSURE. Clean nozzle and cap container after each use. Do not puncture or incinerate (burn) container. Exposure to heat or prolonged exposure to sun may cause bursting.

#### Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

### SECTION 8. Exposure controls/personal protection





**Engineering controls and work practices:**

**Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	-24 – 170 °C
Approx. Freezing Range ( °C)	-142 – -35 °C
Gallon Weight (lbs/gal)	6.26 - 10.09
Specific Gravity	0.75 - 1.21
Percent Volatile By Volume	62.42 - 98.53
Percent Volatile By Weight	45.06 - 97.86
Percent Solids By Volume	1.47 - 37.59
Percent Solids By Weight	2.14 - 54.94

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**11816™** 1,2,4-trimethyl benzene(2%\*), Acrylic resin, Aromatic hydrocarbon, Barium sulfate, Butyl acetate, Ethylbenzene(5.4%\* @), Hydrous magnesium silicate, Titanium dioxide(10.2%), Xylene(22%\* @)  
**GAL WT: 10.09 WT PCT SOLIDS: 54.94 VOL PCT SOLIDS: 37.59**  
**SOLVENT DENSITY: 7.25 VOC LE: 4.5 VOC AP: 4.5**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**12065™** Butyl acetate, Chlorinated paraffin, Ethylbenzene(11.6%\* @), Vinyl resin, Xylene(46%\* @)  
**GAL WT: 7.34 WT PCT SOLIDS: 4.76 VOL PCT SOLIDS: 3.83**  
**SOLVENT DENSITY: 7.27 VOC LE: 7.0 VOC AP: 7.0**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14408™** Butyl acetate, Dimethyl ether, Ethylbenzene(5.2%\* @), Xylene(21%\* @)  
**GAL WT: 6.26 WT PCT SOLIDS: 2.14 VOL PCT SOLIDS: 1.47**  
**SOLVENT DENSITY: 6.22 VOC LE: 6.1 VOC AP: 6.1**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 0 R: 1 OSHA STORAGE: IA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.







<b>SECTION 1. Identification of the substance/preparation and of the company/undertaking</b>		<b>INGREDIENTS</b>	<b>CAS #</b>	<b>VAPOR PRESSURE</b>	<b>EXPOSURE LIMITS</b>
Manufacturer: Standox 47802 W. Anchor Ct. Plymouth, MI, 48170		Epoxy resin	25068-38-6	2.0	A None O None
		Ethoxypropyl acetate	98516-30-4	2.3	A None O None
Telephone: Product information: (800) 551-9296 Medical emergency: (800) 441-3637 Transportation emergency: (800) 424-9300 (CHEMTREC)		Ethyl acetate	141-78-6	93.2@25.0°C	A 400.0 ppm O 400.0 ppm
		Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
Product: <b>5 - Standox® Misc. Undercoats</b>		Fumed silica	112945-52-5	<0.0	A 2.0 mg/m3 Respirable Dust O 6.0 mg/m3 D 1.0 mg/m3 Respirable Dust
DOT Shipping Name: See Index.		Hydrous magnesium silicate	14807-96-6	None	A 2.0 mg/m3 Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA Respirable Dust D 0.1 mg/m3 8 & 12 hour TWA O None
Hazardous Materials Information: See Section 10.		Products covered in this document include: Standox® 2K EP Primer Surfacer (16183), Standox® 2K EP Primer (Aerosol) (16181), Standox® PE Spray Filler (16177), Standox® 1K Primer Red - Brown (Aerosol) (14696)			

**SECTION 2. Composition/information on ingredients**

<b>INGREDIENTS</b>	<b>CAS #</b>	<b>VAPOR PRESSURE</b>	<b>EXPOSURE LIMITS</b>
Acetone	67-64-1	247.0@68.0°F	A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour TWA
Amorphous silica	7631-86-9	None	A 10.0 mg/m3 Total Dust O 20.0 mppcf D 3.0 mg/m3
Barium sulfate	7727-43-7	<0.0	O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 8 & 12 hour TWA Respirable Dust A None
Butane	106-97-8	999.9	A 1000.0 ppm O None
Dimethyl ether	115-10-6	None	A 1000.0 ppm TWA O None
Driers, mixtures	68409-81-4	1.5	A None O None
Epoxy hardener	NotAvail	5.2	A None O None
Iron oxide	1309-37-1	None	A 5.0 mg/m3 Respirable Dust O 10.0 mg/m3 D 3.0 mg/m3
Isopropyl alcohol	67-63-0	48.0	A 400.0 ppm 15 min STEL A 200.0 ppm O 400.0 ppm D 200.0 ppm 8 & 12 hour TWA
Magnesite	546-93-0	None	A 10.0 mg/m3 O None
Melamine resin	68002-24-4	24.0	A None O None
Methacrylic monomers	57472-68-1	<1.3	A None O None
Mica	12001-26-2	None	A 3.0 mg/m3 Respirable Dust O 20.0 mppcf O 3.0 mg/m3 Respirable Dust
N-butyl alcohol	71-36-3	5.6@68.0°F	A 20.0 ppm O 100.0 ppm D 50.0 ppm 15 min TWA





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS	INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Phenolic polymer	NotAvail	10.0	D 25.0 ppm A None O None				A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA
Polyester resin	NotAvail	None	A None O None	Zinc oxide	1314-13-2	None	A 10.0 mg/m3 15 min STEL Respirable Dust A 2.0 mg/m3 Respirable Dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
Polyesters, unsaturated	NotAvail	7.0	A None O None				
Polyvinyl acetates	63148-65-2	<0.0	A None O None				
Propane	74-98-6	109.7@70.0°F	A None O None				
Propylene glycol methyl ether	107-98-2	11.2@77.0°F	A 150.0 ppm 15 min STEL A 100.0 ppm O None	Zinc phosphate	7779-90-0	None	O 5.0 mg/m3 Respirable Dust A None
Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None	<p><b>*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.</b></p>			
Styrene	100-42-5	6.0	A 40.0 ppm 15 min STEL A 20.0 ppm O 200.0 ppm CEIL O 600.0 ppm 5 min STEL maximum O 100.0 ppm D 40.0 ppm 15 min STEL D 20.0 ppm 8 & 12 hour TWA				
Titanium dioxide	13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust	<p><b>SECTION 3. Hazards identification</b></p> <p><b>Potential Health Effects:</b>  <b>Inhalation:</b>                      May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.  <b>Ingestion:</b>                      May result in gastrointestinal distress.  <b>Skin or eye contact:</b>                      May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.  <b>Other Potential Health Effects in addition to those listed above:</b>  <b>Acetone</b>                      The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.  <b>Butane</b>                      Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: cardiovascular system. Eye contact may cause any of the following: swelling, reversible eye injury. This gas is a simple asphyxiant, which at high concentrations can reduce the amount of oxygen available for breathing.  <b>Driers, mixtures</b>                      Some cobalt compounds may be possible human carcinogens.  <b>Epoxy hardener</b>                      Skin contact may cause any of the following: skin sensitization, skin irritation.  <b>Epoxy resin</b>                      The following medical conditions may be aggravated by exposure: skin</p>			
Titanium dioxide (rutile)	1317-80-2	None	A 10.0 mg/m3 TWA Total Dust O 10.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust				
Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL				





disorders. Vapor may be irritating at elevated temperatures. Repeated or prolonged skin contact may cause any of the following: allergic contact dermatitis.

#### Ethyl acetate

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.

#### Ethylbenzene

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

#### Isopropyl alcohol

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

#### Melamine resin

This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. May induce pulmonary sensitization or significant irritation of the respiratory airways. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. IARC has concluded epidemiology studies found evidence of formaldehyde related nasopharyngeal cancer in humans and have classified formaldehyde as a confirmed human carcinogen. DuPont toxicologists have reviewed these studies and classified formaldehyde as a possible human carcinogen.

#### Mica

Repeated or prolonged inhalation may cause any of the following: lung irritation. Long-term respiratory exposure exceeding TLV may damage the lungs, leading to bronchitis and impairment of lung capacity.

#### N-butyl alcohol

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

#### Propane

Skin or eye contact with cold gas, or liquid or solid material may cause severe frostbite. This gas is a simple asphyxiant, which at high concentrations can reduce the amount of oxygen available for breathing.

#### Propylene glycol methyl ether

Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

#### Propylene glycol monomethyl ether acetate

Recurrent overexposure may result in liver and kidney injury.

#### Styrene

Is an IARC, NTP or OSHA carcinogen. May cause any of the following central nervous system effects: loss of consciousness. Prolonged or repeated exposure may cause any of the following: . Tests in laboratory animals have shown effects on any of the following organs/systems: liver. If ingested, may be: harmful or fatal.

#### Titanium dioxide

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

#### Titanium dioxide (rutile)

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

#### Xylene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

## SECTION 4. First aid measures

### First Aid Procedures:

#### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

#### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

#### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

## SECTION 5. Fire-fighting measures

### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion





products (see heading 10). Exposure to decomposition products may be a hazard to health.

**Fire and Explosion Hazards:**

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**Extinguishing Media:**

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

**Fire Fighting Procedures:**

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

**Special Protective Equipment and Fire Fighting Procedures:**

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

**Additional advice:**

Cool closed containers exposed to fire with water spray.

**SECTION 6. Accidental release measures**

**Procedures for cleaning up spills or leaks:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

**Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

**SECTION 7. Handling and storage**

**Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze. CONTENTS UNDER PRESSURE. Clean nozzle and cap container after each use. Do not puncture or incinerate (burn) container. Exposure to heat or prolonged exposure to sun may cause bursting.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection**

**Engineering controls and work practices:**

**Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	-24 – 200 °C
Approx. Freezing Range ( °C)	-142 – -23 °C
Gallon Weight (lbs/gal)	6.42 - 14.06
Specific Gravity	0.77 - 1.68
Percent Volatile By Volume	44.59 - 94.39
Percent Volatile By Weight	24.26 - 86.04
Percent Solids By Volume	5.61 - 55.41
Percent Solids By Weight	13.97 - 75.74

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.



**SECTION 11. Additional Information**

**14696™** Acetone, Amorphous silica, Butane, Hydrous magnesium silicate, Iron oxide, Isopropyl alcohol, Phenolic polymer, Polyvinyl acetates, Propane, Propylene glycol monomethyl ether acetate, Zinc oxide(2%\*)  
**GAL WT: 6.42 WT PCT SOLIDS: 13.97 VOL PCT SOLIDS: 5.61**  
**SOLVENT DENSITY: 5.85 VOC LE: 5.1 VOC AP: 3.7**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16177™** Driers, mixtures(0.2%\*), Ethyl acetate, Fumed silica, Hydrous magnesium silicate, Magnesite, Methacrylic monomers, Polyester resin, Polyesters, unsaturated, Styrene(26.9%\* @), Titanium dioxide(5.0%)  
**GAL WT: 11.71 WT PCT SOLIDS: 70.41 VOL PCT SOLIDS: 55.41**  
**SOLVENT DENSITY: 7.52 VOC LE: 3.5 VOC AP: 3.5**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 2 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**16181™** Acetone, Barium sulfate, Dimethyl ether, Epoxy hardener, Epoxy resin, Ethoxypropyl acetate, Ethylbenzene(1.7%\* @), Hydrous magnesium silicate, N-butyl alcohol(3%\*), Propylene glycol methyl ether, Titanium dioxide(6.7%), Xylene(7%\* @), Zinc phosphate(2%\*)  
**GAL WT: 7.86 WT PCT SOLIDS: 33.98 VOL PCT SOLIDS: 15.36**  
**SOLVENT DENSITY: 6.17 VOC LE: 4.9 VOC AP: 4.2**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**16183™** Barium sulfate, Epoxy resin, Ethylbenzene(2.5%\* @), Hydrous magnesium silicate, Magnesite, Melamine resin, Mica, N-butyl alcohol(2%\*), Propylene glycol methyl ether, Titanium dioxide(14.3%), Titanium dioxide (rutile)(2.4%), Xylene(10%\* @), Zinc phosphate(5%\*)  
**GAL WT: 14.06 WT PCT SOLIDS: 75.74 VOL PCT SOLIDS: 54.48**  
**SOLVENT DENSITY: 7.32 VOC LE: 3.4 VOC AP: 3.4**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.





SECTION 1. Identification of the substance/preparation and of the company/undertaking		INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Manufacturer: Standox 47802 W. Anchor Ct. Plymouth, MI, 48170		Isobutyl acetate	110-19-0	16.6	Respirable Dust D 0.1 mg/m3 8 & 12 hour TWA O None
Telephone: Product information: (800) 551-9296 Medical emergency: (800) 441-3637 Transportation emergency: (800) 424-9300 (CHEMTREC)		Isopropyl alcohol	67-63-0	48.0	A 150.0 ppm O 150.0 ppm
Product: <b>6 - Standox® Stoppers</b>		Magnesite	546-93-0	None	A 400.0 ppm 15 min STEL A 200.0 ppm O 400.0 ppm D 200.0 ppm 8 & 12 hour TWA
DOT Shipping Name: See Index.		N-butyl alcohol	71-36-3	5.6@68.0°F	A 10.0 mg/m3 O None
Hazardous Materials Information: See Section 10.		Nitrocellulose	9004-70-0	None	A 20.0 ppm O 100.0 ppm D 50.0 ppm 15 min TWA D 25.0 ppm
Products covered in this document include: Standox® 1K Bodyfine (16159), Standox® Soft Stopper (15153), Standox® Standosoft Fine Plastic (12251)		Octyl-benzyl-phthalate	68515-40-2	None	A None O None
		Polyesters, unsaturated	NotAvail	7.0	A None O None
		Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Alkyd dry resin trade secret	NotAvail	None	A None O None
Barium sulfate	7727-43-7	<0.0	O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 8 & 12 hour TWA Respirable Dust A None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
Driers, mixtures	68409-81-4	1.5	A None O None
Ethyl acetate	141-78-6	93.2@25.0°C	A 400.0 ppm O 400.0 ppm
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
Hydrous magnesium silicate	14807-96-6	None	A 2.0 mg/m3 Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA
			Styrene
			100-42-5
			6.0
			A 40.0 ppm 15 min STEL A 20.0 ppm O 200.0 ppm CEIL O 600.0 ppm 5 min STEL maximum O 100.0 ppm D 40.0 ppm 15 min STEL D 20.0 ppm 8 & 12 hour TWA
			Titanium dioxide
			13463-67-7
			None
			A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
			Titanium dioxide (rutile)
			1317-80-2
			None
			A 10.0 mg/m3 TWA Total Dust O 10.0 mg/m3





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Xylene	1330-20-7	8.0@25.0°C	Total Dust O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3
			Total Dust D 5.0 mg/m3 Respirable Dust
			A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

**SECTION 3. Hazards identification**

**Potential Health Effects:**

**Inhalation:**

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**Ingestion:**

May result in gastrointestinal distress.

**Skin or eye contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**Other Potential Health Effects in addition to those listed above:**

**Butyl acetate**

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

**Driers, mixtures**

Some cobalt compounds may be possible human carcinogens.

**Ethyl acetate**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.

**Ethylbenzene**

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.  
WARNING: This chemical is known to the State of California to cause cancer.

**Isobutyl acetate**

The following medical conditions may be aggravated by exposure: eye disorders, skin disorders, respiratory disorders.

**Isopropyl alcohol**

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

**N-butyl alcohol**

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

**Nitrocellulose**

The following medical conditions may be aggravated by overexposure: liver disease, kidney disorders.

**Propylene glycol monomethyl ether acetate**

Recurrent overexposure may result in liver and kidney injury.

**Styrene**

Is an IARC, NTP or OSHA carcinogen. May cause any of the following central nervous system effects: loss of consciousness. Prolonged or repeated exposure may cause any of the following: . Tests in laboratory animals have shown effects on any of the following organs/systems: liver. If ingested, may be: harmful or fatal.

**Titanium dioxide**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m3 respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m3 level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

**Titanium dioxide (rutile)**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m3 respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m3 level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

**Xylene**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal



studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

**Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

**SECTION 4. First aid measures**

**First Aid Procedures:**

**Inhalation:**

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

**Ingestion:**

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

**Skin or eye contact:**

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

**SECTION 5. Fire-fighting measures**

**Hazardous combustion products:**

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

**Fire and Explosion Hazards:**

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**Extinguishing Media:**

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

**Fire Fighting Procedures:**

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

**Special Protective Equipment and Fire Fighting Procedures:**

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

**Additional advice:**

Cool closed containers exposed to fire with water spray.

**SECTION 6. Accidental release measures**

**Procedures for cleaning up spills or leaks:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye

**SECTION 7. Handling and storage**

**Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection**

**Engineering controls and work practices:**

**Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.



**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	145 °C
Approx. Freezing Range ( °C)	0 °C
Gallon Weight (lbs/gal)	13.85 - 15.44
Specific Gravity	1.66 - 1.85
Percent Volatile By Volume	26.46 - 49.07
Percent Volatile By Weight	13.85 - 25.90
Percent Solids By Volume	50.93 - 73.54
Percent Solids By Weight	74.10 - 86.15

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**12251™** Barium sulfate, Driers, mixtures(0.1%\*), Hydrus magnesium silicate, Magnesite, Polyesters, unsaturated, Styrene(14.9%\* @), Titanium dioxide(5.6%)

**GAL WT: 15.00 WT PCT SOLIDS: 83.91 VOL PCT SOLIDS: 69.75**

**SOLVENT DENSITY: 7.51 VOC LE: 2.4 VOC AP: 2.4**

**FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**15153™** Barium sulfate, Hydrus magnesium silicate, Magnesite, Polyesters, unsaturated, Styrene(13.8%\* @), Titanium dioxide(6.6%)

**GAL WT: 15.44 WT PCT SOLIDS: 86.15 VOL PCT SOLIDS: 73.54**

**SOLVENT DENSITY: 7.53 VOC LE: 2.1 VOC AP: 2.1**

**FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**16159™** Alkyd dry resin trade secret, Barium sulfate, Butyl acetate, Ethyl acetate, Ethylbenzene(1.6%\* @), Hydrus magnesium silicate, Isobutyl acetate, Isopropyl alcohol, N-butyl alcohol(2%\*), Nitrocellulose, Octyl-benzyl-phthalate, Propylene glycol monomethyl ether acetate, Titanium dioxide (rutile)(2.4%), Xylene(8%\* @)

**GAL WT: 13.85 WT PCT SOLIDS: 74.10 VOL PCT SOLIDS: 50.93**

**SOLVENT DENSITY: 7.30 VOC LE: 3.6 VOC AP: 3.6**

**FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.





**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standox  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **7 - Standox® Thinners**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: Standohyd® VE Water (80184), Standox® MSB Thinner 25-40 (75-90F) (19523), Standox® 2K Smart Blend Plus (16174), Standox® VOC Sealer Agent (16171), Standox® Fast Dry Additive (16169), Standoflex® Thinner 11100 (16160), Standox® MSB Thinner 30-45 (>95F) (16158), Standox® 2.1 Thinner - Slow (16133), Standox® MSB Thinner 15-25 (59-75F) (12049), Standox® Thinner 2K 35-40 (>95F) (11921), Standox® Universal Thinner (11012) (11905), Standox® 2.1 Thinner - Fast (11786), Standox® Polyester Thinner (11719), Standox® Rapid Thinner 2K 10-20 (<60F) (11573), Standox® MS Thinner 2K 25-35 (80-95F) (11484), Standox® MSB Thinner 05-15 (<60F) (11395), Standox® MSB Thinner 20-30 (70-85F) (11387), Standox® 2K Fade Out Thinner 11031 (11247), Standox® Express Thinner 2K 15-25 (60-80F) (11182), Standox Silistop (11107), Standox® 2.1 Thinner Normal (10097)

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Acetone	67-64-1	247.0@68.0°F	A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour TWA
Acrylate polymer	Not Avail	None	A None O None
Acrylic polymer	162568-42-5	None	A None O None
Aromatic hydrocarbon	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
Cyclohexanone	108-94-1	4.0	A 50.0 ppm 15 min STEL Skin A 20.0 ppm Skin O 25.0 ppm TWA D 50.0 ppm 15 min TWA Skin D 25.0 ppm 8 & 12 hour TWA Skin
Dipropylene glycol methyl ether	34590-94-8	0.4@25.0°C	A 150.0 ppm 15 min STEL Skin A 100.0 ppm Skin O 600.0 mg/m3 PEL Skin O 100.0 ppm Skin

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
1,2,4-trimethyl benzene	95-63-6	7.0@44.4°C	A 25.0 ppm O 25.0 ppm
1,3,5-trimethyl benzene	108-67-8	None	A 25.0 ppm O None
2,4-pentanedione	123-54-6	9.0	D 5.0 ppm 8 & 12 hour TWA A None O None
2-butoxyethyl acetate	112-07-2	0.4	A 130.0 mg/m3 D 10.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA O None
2-methyl butyl acetate	624-41-9	None	A 100.0 ppm 15 min STEL A 50.0 ppm O None
4-chlorobenzotrifluoride	98-56-6	7.6@25.0°C	D 20.0 ppm 8 & 12 hour TWA
Esters high boiling point	7397-62-8	None	A None O None
Ethoxypropyl acetate	98516-30-4	2.3	A None O None
Ethyl 3-ethoxy propionate	763-69-9	2.0@25.0°C	A None O None
Ethyl acetate	141-78-6	93.2@25.0°C	A 400.0 ppm O 400.0 ppm
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Hydrotreated heavy naphtha (petroleum)	64742-48-9	None	A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
Isobutyl alcohol	78-83-1	9.7@22.0°C	A None O None
Isopropyl alcohol	67-63-0	48.0	A 400.0 ppm 15 min STEL A 200.0 ppm O 400.0 ppm D 200.0 ppm 8 & 12 hour TWA
Methyl isobutyl ketone	108-10-1	15.1	A 75.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	5.1	A None O None
Octamethylcyclotetrasiloxane	556-67-2	None	A None O None
Polyester resin	129922-22-1	None	A None O None
Primary amyl acetate	628-63-7	4.2	A 100.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm
Propanol, 1(or 2)-ethoxy-, acetate	98516-30-4	None	A None O None
Propylene glycol methyl ether	107-98-2	11.2@77.0°F	A 150.0 ppm 15 min STEL A 100.0 ppm O None
Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None
Propyleneglycoldiacetate	623-84-7	0.9	A None O None
Water	7732-18-5	23.6	A None O None
Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

**SECTION 3. Hazards identification**

**Potential Health Effects:**

**Inhalation:**

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

**Ingestion:**

May result in gastrointestinal distress.

**Skin or eye contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**Other Potential Health Effects in addition to those listed above:**

**2,4-pentanedione**

2,4-pentanedione, a component of this product, is regulated by the U.S. EPA, under a significant new use rule. It is a violation of federal law to sell or use this product in consumer applications, including to private individuals, schools, and vocational schools. Can be absorbed through the skin in harmful amounts. Repeated exposures to high concentrations has caused adverse health effects in laboratory animals. These effects involved the central nervous system, immune system, and the red blood cell forming system. No effect was seen at 100 ppm. The odor is disagreeable at a few ppm. Repeated or prolonged skin contact may cause any of the following: skin sensitization. Skin or eye contact may cause any of the following: irritation. Overexposure of this substance may cause effects on any of the following organs/systems: central nervous system, lungs, upper respiratory system, thymus.

**4-chlorobenzotrifluoride**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin. Prolonged or repeated exposure may cause damage to any of the following organs/systems: kidneys, liver, thyroid. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Ingestion may cause any of the following: gastrointestinal irritation. Eye contact may cause any of the following: permanent eye injury. Inhalation may cause any of the following: stupor (central nervous system depression), respiratory tract irritation.

**Acetone**

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

**Aromatic hydrocarbon**



The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

#### Butyl acetate

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

#### Cyclohexanone

Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. Liquid splashes in the eye may result in chemical burns. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive.

#### Ethyl acetate

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.

#### Ethylbenzene

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

#### Isobutyl alcohol

Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause irritation of the mucous membranes. May cause abnormal liver function. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: bone marrow, liver. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns.

#### Isopropyl alcohol

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

#### Methyl isobutyl ketone

The following medical conditions may be aggravated by exposure: asthma, respiratory disease, eye disorders, pulmonary conditions, skin disorders. Repeated or prolonged skin contact may cause any of the following: dryness, cracking of the skin, defatting. Inhalation may cause any of the following: dizziness, stupor (central nervous system depression), drowsiness, respiratory tract irritation.

#### Octamethylcyclotetrasiloxane

Can irritate or burn eyes.

#### Propylene glycol methyl ether

Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

#### Propylene glycol monomethyl ether acetate

Recurrent overexposure may result in liver and kidney injury.

#### Xylene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

### SECTION 4. First aid measures

#### First Aid Procedures:

##### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

##### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

##### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

### SECTION 5. Fire-fighting measures

#### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

#### Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

#### Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

#### Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

#### Special Protective Equipment and Fire Fighting Procedures:

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

#### Additional advice:

Cool closed containers exposed to fire with water spray.



### SECTION 6. Accidental release measures

#### Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow C02 to vent. After 48 hours, material may be sealed and disposed of properly.

#### Ecological information:

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

### SECTION 7. Handling and storage

#### Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

#### Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

### SECTION 8. Exposure controls/personal protection

#### Engineering controls and work practices:

##### Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

#### Respiratory protection:

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

#### Protective equipment:

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

#### Skin and body protection:

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

### SECTION 9. Physical and chemical properties

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	56 – 200 °C
Approx. Freezing Range ( °C)	-108 – 0 °C
Gallon Weight (lbs/gal)	7.09 - 10.72
Specific Gravity	0.85 - 1.28
Percent Volatile By Volume	74.87 - 100.00
Percent Volatile By Weight	77.64 - 100.00
Percent Solids By Volume	0.00 - 25.13
Percent Solids By Weight	0.00 - 22.36

### SECTION 10. Stability and reactivity

#### Stability:

Stable.

#### Incompatibility (materials to avoid):

None reasonably foreseeable.

#### Hazardous decomposition products:

CO, C02, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

#### Hazardous Polymerization:

Will not occur.

#### Sensitivity to Static Discharge:

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

#### Sensitivity to Mechanical Impact:

None known.

### SECTION 11. Additional Information

**10097™** 4-chlorobenzotrifluoride, Acetone  
**GAL WT: 10.71 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00**  
**SOLVENT DENSITY: 10.71 VOC LE: 0.0 VOC AP: 0.0**  
**FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 1 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**11107™** Butyl acetate, Ethylbenzene(18.5%\* @),  
Octamethylcyclotetrasiloxane, Xylene(74%\* @)  
**GAL WT: 7.24 WT PCT SOLIDS: 2.50 VOL PCT SOLIDS: 2.26**  
**SOLVENT DENSITY: 7.20 VOC LE: 7.1 VOC AP: 7.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**



11182™ Butyl acetate, Propylene glycol monomethyl ether acetate  
GAL WT: 7.67 WT PCT SOLIDS: 0.02 VOL PCT SOLIDS: 0.02  
SOLVENT DENSITY: 7.67 VOC LE: 7.7 VOC AP: 7.7  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

11247™ 2-butoxyethyl acetate(17%@), Cyclohexanone, Propylene glycol monomethyl ether acetate  
GAL WT: 7.93 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.93 VOC LE: 7.9 VOC AP: 7.9  
FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

11387™ 1,2,4-trimethyl benzene(1%\*), 2-butoxyethyl acetate(3%@), Butyl acetate, Esters high boiling point, Ethylbenzene(3.3%\*@), Naphtha (petroleum), hydrodesulfurized heavy, Xylene(14%\*@)  
GAL WT: 7.12 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.15 VOC LE: 7.1 VOC AP: 7.1  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES

11395™ 1,2,4-trimethyl benzene(3%\*), Aromatic hydrocarbon, Butyl acetate, Ethoxypropyl acetate, Ethylbenzene(2.0%\*@), Isobutyl alcohol, Xylene(8%\*@)  
GAL WT: 7.30 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.29 VOC LE: 7.3 VOC AP: 7.3  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES

11484™ 2-butoxyethyl acetate(23%@), Butyl acetate, Ethoxypropyl acetate, Propanol, 1(or 2)-ethoxy-, acetate  
GAL WT: 7.57 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.58 VOC LE: 7.6 VOC AP: 7.6  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

11573™ Butyl acetate, Ethylbenzene(1.2%\*@), Xylene(5%\*@)  
GAL WT: 7.34 WT PCT SOLIDS: 0.03 VOL PCT SOLIDS: 0.02  
SOLVENT DENSITY: 7.33 VOC LE: 7.3 VOC AP: 7.3  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

11719™ Butyl acetate, Ethyl acetate  
GAL WT: 7.51 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.51 VOC LE: 7.5 VOC AP: 7.5  
FLASH POINT: 20 °F to below 73 °F H: 1 F: 3 R: 0 OSHA STORAGE: IB  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

11786™ 4-chlorobenzotrifluoride, Acetone  
GAL WT: 10.72 WT PCT SOLIDS: 0.05 VOL PCT SOLIDS: 0.06  
SOLVENT DENSITY: 10.72 VOC LE: 6.7 VOC AP: 0.0  
FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 1 OSHA STORAGE: II  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

11905™ Butyl acetate, Propylene glycol monomethyl ether acetate  
GAL WT: 7.67 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.67 VOC LE: 7.7 VOC AP: 7.7  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

11921™ 2-butoxyethyl acetate(97%@), Ethylbenzene(0.2%\*@)  
GAL WT: 7.84 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.85 VOC LE: 7.8 VOC AP: 7.8

FLASH POINT: 141 °F - 200 °F H: 0 F: 2 R: 0 OSHA STORAGE: IIIA  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

12049™ Butyl acetate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(2.0%\*@), Hydrotreated heavy naphtha (petroleum), Xylene(8%\*@)  
GAL WT: 7.09 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.08 VOC LE: 7.1 VOC AP: 7.1  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

16133™ 4-chlorobenzotrifluoride, Acetone, Ethyl 3-ethoxy propionate, Polyester resin  
GAL WT: 10.48 WT PCT SOLIDS: 6.76 VOL PCT SOLIDS: 7.93  
SOLVENT DENSITY: 10.61 VOC LE: 2.3 VOC AP: 0.3  
FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

16158™ 1,2,4-trimethyl benzene(2%\*), 2-butoxyethyl acetate(18%@), Aromatic hydrocarbon, Butyl acetate, Dipropylene glycol methyl ether, Propylene glycol monomethyl ether acetate  
GAL WT: 7.70 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.69 VOC LE: 7.7 VOC AP: 7.7  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

16160™ Isobutyl alcohol, Isopropyl alcohol, Propylene glycol methyl ether  
GAL WT: 7.17 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.17 VOC LE: 7.2 VOC AP: 7.2  
FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

16169™ 2,4-pentanedione, Butyl acetate, Ethylbenzene(1.5%\*@), Methyl isobutyl ketone(7%\*@), Xylene(6%\*@)  
GAL WT: 7.36 WT PCT SOLIDS: 0.68 VOL PCT SOLIDS: 0.57  
SOLVENT DENSITY: 7.35 VOC LE: 7.3 VOC AP: 7.3  
FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

16171™ 4-chlorobenzotrifluoride, Acrylate polymer, Aromatic hydrocarbon  
GAL WT: 10.02 WT PCT SOLIDS: 22.36 VOL PCT SOLIDS: 25.13  
SOLVENT DENSITY: 10.61 VOC LE: 2.8 VOC AP: 1.2  
FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES

16174™ 2-methyl butyl acetate, Acrylic polymer, Butyl acetate, Cyclohexanone, Ethyl acetate, Ethylbenzene(2.7%\*@), Primary amyl acetate, Propylene glycol monomethyl ether acetate, Propyleneglycoldiacetate, Xylene(11%\*@)  
GAL WT: 7.73 WT PCT SOLIDS: 4.70 VOL PCT SOLIDS: 3.75  
SOLVENT DENSITY: 7.65 VOC LE: 7.4 VOC AP: 7.4  
FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES

19523™ 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, 2-butoxyethyl acetate(8%@), Aromatic hydrocarbon, Butyl acetate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.2%\*@), Naphtha (petroleum), hydrodesulfurized heavy, Xylene(5%\*@)  
GAL WT: 7.25 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.27 VOC LE: 7.2 VOC AP: 7.2  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC  
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES

80184™ Water





GAL WT: 8.35 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 8.35 VOC LE: 0.0 VOC AP: 0.0  
FLASH POINT: Above 200 °F H: 0 F: 0 OSHA STORAGE: III B  
TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Product Manager: Refinish Sales  
Prepared by: Y. B. Yarbrough





**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standox  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **8 - Standox® Cleaners**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: Standohyd® VOC Cleaner 25 (16178), Standohyd® Cleaner (16176), Standohyd® Cleaner (Aerosol) (16166), Standohyd® Cleaner (16155), Standox® Silicone Remover Antistatic (Aerosol) (15099), Standox® Silicone Remover Antistatic (11654)

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Acetone	67-64-1	247.0@68.0°F	A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour TWA
Butane	106-97-8	999.9	A 1000.0 ppm O None
Dimethyl ether	115-10-6	None	A 1000.0 ppm TWA O None
Ethylene glycol monobutyl ether	111-76-2	0.6	A 20.0 ppm O 50.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA
Hydrotreated heavy naphtha (petroleum)	64742-48-9	None	A None O None
Isopropyl alcohol	67-63-0	48.0	A 400.0 ppm 15 min STEL A 200.0 ppm O 400.0 ppm D 200.0 ppm 8 & 12 hour TWA
Liquified compressed gas	68476-85-7	120.3	A 1000.0 ppm O 1000.0 ppm
Propanol, 1(or 2)-ethoxy-	1569-02-4	10.0	A None

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Water	7732-18-5	23.6	O None A None O None

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

**SECTION 3. Hazards identification**

**Potential Health Effects:**

**Inhalation:**

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

**Ingestion:**

May result in gastrointestinal distress.

**Skin or eye contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**Other Potential Health Effects in addition to those listed above:**

**Acetone**

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

**Butane**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: cardiovascular system. Eye contact may cause any of the following: swelling, reversible eye injury. This gas is a simple asphyxiant, which at high concentrations can reduce the amount of oxygen available for breathing.

**Ethylene glycol monobutyl ether**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, central nervous system, eyes, gastrointestinal system, kidneys, liver, respiratory system, skin. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. If absorbed through the skin, may be: harmful.

**Isopropyl alcohol**

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated





exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

**Liquified compressed gas**

May possibly cause modest initial irritation, followed in hours by severe shortness of breath, requiring prompt medical attention. May cause central nervous system effects such as temporary muscular weakness and loss of coordination. Contact may cause skin burns. Can irritate or burn eyes.

**SECTION 4. First aid measures**

**First Aid Procedures:**

**Inhalation:**

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

**Ingestion:**

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

**Skin or eye contact:**

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

**SECTION 5. Fire-fighting measures**

**Hazardous combustion products:**

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

**Fire and Explosion Hazards:**

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**Extinguishing Media:**

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

**Fire Fighting Procedures:**

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

**Special Protective Equipment and Fire Fighting Procedures:**

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

**Additional advice:**

Cool closed containers exposed to fire with water spray.

**SECTION 6. Accidental release measures**

**Procedures for cleaning up spills or leaks:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact

and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO2 to vent. After 48 hours, material may be sealed and disposed of properly.

**Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

**SECTION 7. Handling and storage**

**Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

CONTENTS UNDER PRESSURE. Clean nozzle and cap container after each use. Do not puncture or incinerate (burn) container. Exposure to heat or prolonged exposure to sun may cause bursting.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection**

**Engineering controls and work practices:**

**Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.



**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range (°C)	-24 – 165 °C
Approx. Freezing Range (°C)	-142 – -94 °C
Gallon Weight (lbs/gal)	6.26 - 8.01
Specific Gravity	0.75 - 0.96
Percent Volatile By Volume	99.90 - 100.00
Percent Volatile By Weight	99.89 - 100.00
Percent Solids By Volume	0.00 - 0.10
Percent Solids By Weight	0.00 - 0.11

**SECTION 10. Stability and reactivity****Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

11654™ Hydrotreated heavy naphtha (petroleum), Propanol, 1(or 2)-ethoxy-

**GAL WT: 6.32 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00****SOLVENT DENSITY: 6.31 VOC LE: 6.3 VOC AP: 6.3****FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

15099™ Butane, Hydrotreated heavy naphtha (petroleum), Liquefied compressed gas, Propanol, 1(or 2)-ethoxy-

**GAL WT: 6.26 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00****SOLVENT DENSITY: 6.26 VOC LE: 6.3 VOC AP: 6.3****FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

16155™ Isopropyl alcohol, Water

**GAL WT: 8.00 WT PCT SOLIDS: 0.03 VOL PCT SOLIDS: 0.02****SOLVENT DENSITY: 7.98 VOC LE: 6.6 VOC AP: 1.3****FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

16166™ Dimethyl ether, Isopropyl alcohol, Water

**GAL WT: 6.55 WT PCT SOLIDS: 0.05 VOL PCT SOLIDS: 0.04****SOLVENT DENSITY: 6.55 VOC LE: 5.7 VOC AP: 3.9****FLASH POINT: Below 20 °F H: 2 F: 3 R: 1 OSHA STORAGE: IA****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

16176™ Isopropyl alcohol, Water

**GAL WT: 7.90 WT PCT SOLIDS: 0.11 VOL PCT SOLIDS: 0.10****SOLVENT DENSITY: 7.90 VOC LE: 6.5 VOC AP: 1.6****FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

16178™ Acetone, Ethylene glycol monobutyl ether(1%\*), Water

**GAL WT: 8.01 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00****SOLVENT DENSITY: 8.01 VOC LE: 8.2 VOC AP: 0.2****FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB****TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO****Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.





**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standox  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **9 - Standox® Hardeners/Activators**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: Standox® Etching Adhesion Activator (16168), Standox® VOC Platinum Hardener (16162), Standox® 2.1 Hardener - Extra Slow (16125), Standox® 2.1 Hardener - Slow (16117), Standox® 2K Hardener 20-30 (15978/16146), Standox® 2K Hardener 30-45 (15943), Standox® 2K Hardener 25-40 (15935), Standox® 2K Hardener 05-15 (15080/16145), Standox® 2K Hardener 15-25 (15013), Standox® Hardener for PE Spray Filler (14564), Standox® PE Hardener (14262), Standoflex® 2K Plastic Hardener (11824), Standox® 2.1 Hardener - Fast (11778), Standox® 2.1 Hardener - Normal (10089)

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
	64742-94-5	150.0	D 100.0 ppm A None O None
Aromatic hydrocarbon-B	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None
Benzoyl peroxide	94-36-0	7.8	A None O None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
Carbamate resin	26935-10-4	None	A None O None
Chlorinated polyolefin	68442-33-1	None	A None O None
Cyclohexanone, peroxide	12262-58-7	None	A None O None
Diacetone alcohol	123-42-2	1.1@200.0°C	A 50.0 ppm TLV O 50.0 ppm TWA
Ethyl 3-ethoxy propionate	763-69-9	2.0@25.0°C	A None O None
Ethyl acetate	141-78-6	93.2@25.0°C	A 400.0 ppm O 400.0 ppm
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
1,2,4-trimethyl benzene	95-63-6	7.0@44.4°C	A 25.0 ppm O 25.0 ppm
1,2-benzenedicarboxylic acid, bis(2-methylpropyl) ester	84-69-5	None	A None O None
1,3,5-trimethyl benzene	108-67-8	None	A 25.0 ppm O None
1,6-hexamethylene diisocyanate	822-06-0	0.0@25.0°C	A 5.0 ppb O None
2-butoxyethyl acetate	112-07-2	0.4	A 130.0 mg/m3 D 10.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA O None
4-chlorobenzotrifluoride	98-56-6	7.6@25.0°C	D 20.0 ppm 8 & 12 hour TWA A None O None
Aliphatic polyisocyanate resin	28182-81-2	1.5@25.0°C	S 1.0 mg/m3 15 min STEL S 0.5 mg/m3 A None O None
Aromatic hydrocarbon-A			

Ethylene glycol monobutyl ether acetate	112-07-2	0.3	A 20.0 ppm D 20.0 ppm 8 & 12 hour TWA
Modified chlorinated polyolefin	68609-36-9	None	A None O None
N-butyl alcohol	71-36-3	5.6@68.0°C	A 20.0 ppm O 100.0 ppm D 50.0 ppm 15 min TWA D 25.0 ppm
N-propanol	71-23-8	19.0	A 100.0 ppm O 250.0 ppm 15 min STEL O 200.0 ppm Skin D 200.0 ppm





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Phosphoric acid	7664-38-2	2.0	A 3.0 mg/m3 15 min STEL A 1.0 mg/m3 O 1.0 mg/m3 D 1.0 mg/m3 8 & 12 hour TWA
Propylene glycol methyl ether	107-98-2	11.2@77.0°F	A 150.0 ppm 15 min STEL A 100.0 ppm O None
Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None
Toluene	108-88-3	29.0	A 20.0 ppm  O 300.0 ppm CEIL O 500.0 ppm 10 min TWA O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA Skin
Treated amorphous fumed silica	67762-90-7	None	A 10.0 mg/m3 Total Dust O None
Verduennung typ a	NotAvail	None	A None O None
Water	7732-18-5	23.6	A None O None
Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

### SECTION 3. Hazards identification

#### Potential Health Effects:

##### Inhalation:

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung

function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

##### Ingestion:

May result in gastrointestinal distress.

##### Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

#### Other Potential Health Effects in addition to those listed above:

##### 4-chlorobenzotrifluoride

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin. Prolonged or repeated exposure may cause damage to any of the following organs/systems: kidneys, liver, thyroid. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Ingestion may cause any of the following: gastrointestinal irritation. Eye contact may cause any of the following: permanent eye injury. Inhalation may cause any of the following: stupor (central nervous system depression), respiratory tract irritation.

##### Aliphatic polyisocyanate resin

Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. The following medical conditions may be aggravated by exposure: asthma, skin disorders, respiratory disorders. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Skin or eye contact may cause any of the following: irritation.

##### Aromatic hydrocarbon-A

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

##### Aromatic hydrocarbon-B

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

##### Benzoyl peroxide

Repeated or prolonged skin contact may cause any of the following: skin sensitization. Skin or eye contact may cause any of the following: irritation. Inhalation may cause any of the following: respiratory tract irritation.

##### Butyl acetate

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

##### Cyclohexanone, peroxide

Ingestion may cause any of the following: burns to mouth and stomach, gastrointestinal irritation. Eye contact may cause any of the following: permanent eye injury, blindness. Inhalation may cause any of the following: respiratory tract irritation. Skin or eye contact may cause any of the following: severe irritation, burns.

##### Diacetone alcohol

Increased susceptibility to the effects of this material may be observed in



people with preexisting disease of any of the following: cardiovascular system, central nervous system, eyes, respiratory system, skin, red blood cells. Overexposure may cause damage to any of the following organs/systems: kidneys, liver, red blood cells. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive.

#### Ethyl acetate

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.

#### Ethylbenzene

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

#### Ethylene glycol monobutyl ether acetate

May destroy red blood cells. May cause abnormal kidney function. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. The following medical conditions may be aggravated by exposure: central nervous system, gastrointestinal system, kidneys, liver, dermatitis. Can be absorbed through the skin in harmful amounts. Overexposure may cause damage to any of the following organs/systems: blood, kidneys, liver. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

#### N-butyl alcohol

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

#### N-propanol

Has shown mutagenic activity in laboratory cell culture tests. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause abnormal liver function. Can be absorbed through the skin in harmful amounts.

#### Phosphoric acid

Ingestion may cause any of the following: burns to mouth and stomach. Inhalation of vapor may cause any of the following: burns to respiratory system. Skin or eye contact may cause any of the following: burns.

#### Propylene glycol methyl ether

Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

#### Propylene glycol monomethyl ether acetate

Recurrent overexposure may result in liver and kidney injury.

#### Toluene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown.

WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

#### Xylene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High

exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

### SECTION 4. First aid measures

#### First Aid Procedures:

##### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

##### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

##### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

### SECTION 5. Fire-fighting measures

#### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

#### Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

#### Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

#### Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

#### Special Protective Equipment and Fire Fighting Procedures:

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

#### Additional advice:

Cool closed containers exposed to fire with water spray.

### SECTION 6. Accidental release measures

#### Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an



isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO<sub>2</sub> to vent. After 48 hours, material may be sealed and disposed of properly.

**Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

**SECTION 7. Handling and storage****Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection****Engineering controls and work practices:****Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	77 – 197 °C
Approx. Freezing Range ( °C)	-127 – 203 °C
Gallon Weight (lbs/gal)	7.28 - 10.02
Specific Gravity	0.87 - 1.20
Percent Volatile By Volume	11.11 - 97.82
Percent Volatile By Weight	9.70 - 95.27
Percent Solids By Volume	2.18 - 88.89
Percent Solids By Weight	4.74 - 90.30

**SECTION 10. Stability and reactivity****Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**10089™** 1,2,4-trimethyl benzene(1%\*), 4-chlorobenzotrifluoride, Aliphatic polyisocyanate resin, Aromatic hydrocarbon-B, Butyl acetate, Ethyl 3-ethoxy propionate, Ethylbenzene(0.4%\* @), Xylene(2%\* @)  
**GAL WT: 9.90 WT PCT SOLIDS: 45.01 VOL PCT SOLIDS: 46.17**  
**SOLVENT DENSITY: 10.10 VOC LE: 1.8 VOC AP: 1.1**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**11778™** 1,2,4-trimethyl benzene(1%\*), 4-chlorobenzotrifluoride, Aliphatic polyisocyanate resin, Aromatic hydrocarbon-B, Butyl acetate, Ethyl 3-ethoxy propionate, Ethylbenzene(0.4%\* @), Xylene(2%\* @)  
**GAL WT: 9.90 WT PCT SOLIDS: 45.02 VOL PCT SOLIDS: 46.18**  
**SOLVENT DENSITY: 10.10 VOC LE: 1.8 VOC AP: 1.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**11824™** Carbamate resin, Chlorinated polyolefin, Ethylbenzene(18.2%\* @), Modified chlorinated polyolefin, Xylene(72%\* @)



**GAL WT: 7.28 WT PCT SOLIDS: 8.79 VOL PCT SOLIDS: 8.04**  
**SOLVENT DENSITY: 7.19 VOC LE: 6.6 VOC AP: 6.6**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14262™** 1,2-benzenedicarboxylic acid, bis(2-methylpropyl) ester, Benzoyl peroxide(50%\* @), Treated amorphous fumed silica, Water  
**GAL WT: 9.51 WT PCT SOLIDS: 90.30 VOL PCT SOLIDS: 88.89**  
**SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0**  
**FLASH POINT: No measurable H: 1 F: 1 R: 0 OSHA STORAGE: N/A**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**14564™** Cyclohexanone, peroxide, Diacetone alcohol, Ethyl acetate, Verdunnung typ a, Water  
**GAL WT: 8.51 WT PCT SOLIDS: 14.00 VOL PCT SOLIDS: 11.66**  
**SOLVENT DENSITY: 8.29 VOC LE: 7.3 VOC AP: 7.1**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**15013™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, 1,6-hexamethylene diisocyanate(0.1%\* @), Aliphatic polyisocyanate resin, Aromatic hydrocarbon-B, Butyl acetate, Ethylbenzene(1.6%\* @), Propylene glycol monomethyl ether acetate, Xylene(7%\* @)  
**GAL WT: 8.33 WT PCT SOLIDS: 47.96 VOL PCT SOLIDS: 41.00**  
**SOLVENT DENSITY: 7.33 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**15080/16145™** 1,6-hexamethylene diisocyanate(0.1%\* @), Aliphatic polyisocyanate resin, Aromatic hydrocarbon-B, Butyl acetate, Ethylbenzene(0.6%\* @), Propylene glycol monomethyl ether acetate, Toluene(41%\* @), Xylene(2%\* @)  
**GAL WT: 8.24 WT PCT SOLIDS: 47.79 VOL PCT SOLIDS: 40.44**  
**SOLVENT DENSITY: 7.23 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**15935™** 1,2,4-trimethyl benzene(4%\*), 1,6-hexamethylene diisocyanate(0.1%\* @), 2-butoxyethyl acetate(16% @), Aliphatic polyisocyanate resin, Aromatic hydrocarbon-A, Aromatic hydrocarbon-B, Butyl acetate, Ethyl 3-ethoxy propionate  
**GAL WT: 8.53 WT PCT SOLIDS: 49.51 VOL PCT SOLIDS: 43.37**  
**SOLVENT DENSITY: 7.59 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**15943™** 1,6-hexamethylene diisocyanate(0.1%\* @), 2-butoxyethyl acetate(44% @), Aliphatic polyisocyanate resin, Aromatic hydrocarbon-B, Butyl acetate  
**GAL WT: 8.64 WT PCT SOLIDS: 49.51 VOL PCT SOLIDS: 43.92**  
**SOLVENT DENSITY: 7.80 VOC LE: 4.4 VOC AP: 4.4**  
**FLASH POINT: 141 °F - 200 °F H: 3 F: 2 R: 1 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**15978/16146™** 1,2,4-trimethyl benzene(3%\*), 1,6-hexamethylene diisocyanate(0.1%\* @), 2-butoxyethyl acetate(9% @), Aliphatic polyisocyanate resin, Aromatic hydrocarbon-A, Aromatic hydrocarbon-B, Butyl acetate, Ethyl 3-ethoxy propionate, Ethylbenzene(0.8%\* @), Xylene(3%\* @)  
**GAL WT: 8.50 WT PCT SOLIDS: 49.51 VOL PCT SOLIDS: 43.20**  
**SOLVENT DENSITY: 7.55 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**16117™** 1,6-hexamethylene diisocyanate(0.1%\* @), 4-chlorobenzotrifluoride, Aliphatic polyisocyanate resin, Aromatic

hydrocarbon-B, Ethyl 3-ethoxy propionate, Ethylbenzene(0.3%\* @), Xylene(1%\* @)

**GAL WT: 9.99 WT PCT SOLIDS: 44.79 VOL PCT SOLIDS: 46.22**  
**SOLVENT DENSITY: 10.25 VOC LE: 1.8 VOC AP: 1.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**16125™** 1,6-hexamethylene diisocyanate(0.1%\* @), 4-chlorobenzotrifluoride, Aliphatic polyisocyanate resin, Ethyl 3-ethoxy propionate  
**GAL WT: 10.02 WT PCT SOLIDS: 44.52 VOL PCT SOLIDS: 46.26**  
**SOLVENT DENSITY: 10.35 VOC LE: 1.8 VOC AP: 1.1**  
**FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 1 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**16162™** 1,2,4-trimethyl benzene(1%\*), 1,6-hexamethylene diisocyanate(0.2%\* @), Aliphatic polyisocyanate resin, Aromatic hydrocarbon-B, Butyl acetate, Ethyl 3-ethoxy propionate, Ethylbenzene(0.7%\* @), Ethylene glycol monobutyl ether acetate(6%\* @), Propylene glycol monomethyl ether acetate, Xylene(3%\* @)  
**GAL WT: 9.02 WT PCT SOLIDS: 70.41 VOL PCT SOLIDS: 65.21**  
**SOLVENT DENSITY: 7.67 VOC LE: 2.7 VOC AP: 2.7**  
**FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**16168™** 1,2,4-trimethyl benzene(3%\*), Aromatic hydrocarbon-B, Butyl acetate, Ethylbenzene(4.6%\* @), N-butyl alcohol(32%\*), N-propanol, Phosphoric acid, Propylene glycol methyl ether, Water, Xylene(19%\* @)  
**GAL WT: 7.30 WT PCT SOLIDS: 4.74 VOL PCT SOLIDS: 2.18**  
**SOLVENT DENSITY: 7.09 VOC LE: 6.9 VOC AP: 6.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.





**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standox  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **10 - Standox® Additives**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: Standox® 2K Plasticiser (15260), Standox® 2K Matting Agent 606 (13649)

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Paraffin wax	8002-74-2	None	Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA Respirable Dust D 0.1 mg/m3 8 & 12 hour TWA O None
Polyester resin	55447-58-0	None	A 2.0 mg/m3 TWA Fumes O 2.0 mg/m3 TWA Fumes
Wetting agents for solvent borne coatings	NotAvail	5.0	A None O None
Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
2-butoxyethyl acetate	112-07-2	0.4	A 130.0 mg/m3 D 10.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA O None
Acrylic polymer	NotAvail	None	A None O None
Amorphous silica - precipitated	112926-00-8	None	A 10.0 mg/m3 O 15.0 mg/kg Total Dust O 5.0 mg/m3 TWA Respirable Dust D 3.0 mg/m3 Respirable Dust
Aromatic hydrocarbon	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
Hydrous magnesium silicate	14807-96-6	None	A 2.0 mg/m3

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

**SECTION 3. Hazards identification**

**Potential Health Effects:**

**Inhalation:**

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

**Ingestion:**

May result in gastrointestinal distress.

**Skin or eye contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**Other Potential Health Effects in addition to those listed above:**

**Aromatic hydrocarbon**

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These



effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

#### Butyl acetate

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

#### Ethylbenzene

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

#### Xylene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

### SECTION 4. First aid measures

#### First Aid Procedures:

##### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

##### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

##### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

### SECTION 5. Fire-fighting measures

#### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

#### Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

#### Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

#### Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

#### Special Protective Equipment and Fire Fighting Procedures:

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

#### Additional advice:

Cool closed containers exposed to fire with water spray.

### SECTION 6. Accidental release measures

#### Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO<sub>2</sub> to vent. After 48 hours, material may be sealed and disposed of properly.

#### Ecological information:

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

### SECTION 7. Handling and storage

#### Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

#### Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

### SECTION 8. Exposure controls/personal protection

#### Engineering controls and work practices:

##### Ventilation:



Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	125 – 126 °C
Approx. Freezing Range ( °C)	-74 – -74 °C
Gallon Weight (lbs/gal)	9.01 - 9.39
Specific Gravity	1.08 - 1.13
Percent Volatile By Volume	28.21 - 68.75
Percent Volatile By Weight	22.98 - 53.92
Percent Solids By Volume	31.25 - 71.79
Percent Solids By Weight	46.08 - 77.02

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**13649™** 2-butoxyethyl acetate(3%@), Acrylic polymer, Amorphous silica - precipitated, Butyl acetate, Ethylbenzene(1.8%\*@), Hydrous magnesium silicate, Paraffin wax, Wetting agents for solvent borne coatings, Xylene(7%\*@)

**GAL WT: 9.39 WT PCT SOLIDS: 46.08 VOL PCT SOLIDS: 31.25**

**SOLVENT DENSITY: 7.36 VOC LE: 5.1 VOC AP: 5.1**

**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**15260™** Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(0.2%\*@), Polyester resin

**GAL WT: 9.01 WT PCT SOLIDS: 77.02 VOL PCT SOLIDS: 71.79**

**SOLVENT DENSITY: 7.33 VOC LE: 2.1 VOC AP: 2.1**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.





SECTION 1. Identification of the substance/preparation and of the company/undertaking		INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
					Respirable Dust O 15.0 mg/m3
Manufacturer:	Standex 47802 W. Anchor Ct. Plymouth, MI, 48170	Barium sulfate	7727-43-7	None	O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 8 & 12 hour TWA Respirable Dust A None
Telephone:	Product information: (800) 551-9296 Medical emergency: (800) 441-3637 Transportation emergency: (800) 424-9300 (CHEMTREC)				
Product:	<b>11 - 2K MS Standocryl® (Included Factory Packs)</b>	Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
DOT Shipping Name:	See Index.	C.i. pigment red 254	84632-65-5	None	A None O None
Hazardous Materials Information:	See Section 10.	C.i. pigment violet 23	6358-30-1	None	A None O None
Products covered in this document include: 2K-031 (14769/81504), 2K-025 (14750/81490), 2K-522 (14386), 2K-530 (14378), 2K-521 (14360), 2K Real Black (14009), 2K-541 (11522), 2K Rall-eye Black (10887), 2K RAL 9005 Black 841 (10879), 2K-611 (10330/87677), 2K-553 (10321/88908/84538), 2K-551 (10313/87979), 2K-546 (10305/87782/84635), 2K-533 (10291/88525/84406), 2K-112 (10240/88517), 2K-061 (10232/89149/90201), 2K-024 (10224/89050), 2K-011 (10216/89017), 2K-010 (10208), 2K-660 (10194/90490), 2K-632 (10186/87669), 2K-624 (10178/90473), 2K-560 (10160/88789), 2K-550 (10151/88541), 2K-544 (10127/88568), 2K-543 (10119/88452), 2K-527 (10070/88770), 2K-151 (10046/90376), 2K-150 (10038/90368)		Carbon black	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA
		Chlorite	1318-59-8	None	A None O None
		Diazo pigment	5979-28-2	None	A 10.0 mg/m3 O None
		Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
1,2,4-trimethyl benzene	95-63-6	7.0@44.4°C	A 25.0 ppm O 25.0 ppm
1,3,5-trimethyl benzene	108-67-8	None	A 25.0 ppm O None
Acrylic polymer	NotAvail	None	A None O None
Acrylic resin	98613-27-5	None	A None O None
Antimony trioxide	1309-64-4	None	A 0.5 mg/m3 Sb O 0.5 mg/m3 Sb D 0.2 mg/m3 Sb D 0.1 mg/m3 12 hr TWA Sb
Aromatic hydrocarbon	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None
Azo yellow pigment	31837-42-0	None	A 10.0 mg/m3 O 5.0 mg/m3
			Hydrotreated heavy naphtha (petroleum) 64742-48-9 10.0@25.0°C S 300.0 ppm D 100.0 ppm A None O None
			Hydrous magnesium silicate 14807-96-6 None A 2.0 mg/m3 Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA Respirable Dust D 0.1 mg/m3 8 & 12 hour TWA O None
			Iron hydroxide 20344-49-4 None A None O None
			Iron oxide 1309-37-1 None A 5.0 mg/m3 Respirable Dust O 10.0 mg/m3





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS	INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS																							
Lead chromate molybdate 12656-85-8	None	None	D 3.0 mg/m3	Phthalocyanine green pigment 68512-13-0	None	None	Total Dust O 5.0 mg/m3 TWA Respirable Dust																							
			A 50.0 ug/m3 Pb				Polyacrylic resin NotAvail	None	None	A None O None																				
			A 10.0 mg/m3 inhalable dust							Propylene glycol monomethyl ether acetate 108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None																		
			Mo										Quartz-crystalline silica 14808-60-7	None	A 25.0 ug/m3 Respirable Dust O 0.3 mg/m3 Total Dust O 0.1 mg/m3 Respirable Dust D 0.1 mg/m3 Respirable Dust															
			A 3.0 mg/m3 respirable particulate													Quinacridone magenta 980-26-7	None	A None O None												
			Mo																Quinacridone pigment 1047-16-1	None	A 10.0 mg/m3 inhalable dust A 3.0 mg/m3 O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust									
			A 12.0 ug/m3 Cr(VI)																			Titanium dioxide 13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust						
			O 50.0 ug/m3 Pb																						Wetting agents/surfactants/release agents NotAvail	5.0	A None O None			
			O 5.0 ug/m3 Cr(VI)																									Xylene 1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA
			D 50.0 ug/m3 Cr(VI)																											
A 50.0 ug/m3 Pb	Phthalocyanine blue pigment 147-14-8	None	A 10.0 mg/m3 inhalable dust PNOC A 3.0 mg/m3 respirable particulate PNOC O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 TWA Respirable Dust PNOR																											
A 12.0 ug/m3 Cr(VI)				Monoazo pigment 12236-62-3	None	A 10.0 mg/m3 inhalable dust particulate O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust																								
O 50.0 ug/m3 TWA							Phthalocyanine green 1328-53-6	None	A 3.0 mg/m3 TWA Respirable Dust A 10.0 mg/m3 TWA inhalable dust O 15.0 mg/m3 TWA																					
Pb										*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.																				

**SECTION 3. Hazards identification**

**Potential Health Effects:**  
**Inhalation:**



May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

**Ingestion:**

May result in gastrointestinal distress.

**Skin or eye contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**Other Potential Health Effects in addition to those listed above:**

**Acrylic polymer**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin.

**Acrylic resin**

Skin or eye contact may cause any of the following: irritation.

**Antimony trioxide**

Is an IARC, NTP or OSHA carcinogen. Cancer hazard based on tests with laboratory animals. Overexposure may create cancer risk. This substance may cause effects on any of the following organs/systems: lungs. Tests in laboratory animals have shown potential for developmental toxicity. The significance to man is unknown.

WARNING: This chemical is known to the State of California to cause cancer.

**Aromatic hydrocarbon**

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**Butyl acetate**

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

**Carbon black**

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease.

WARNING: This chemical is known to the State of California to cause cancer.

**Ethylbenzene**

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

**Hydrotreated heavy naphtha (petroleum)**

Overexposure may cause eye, nose and throat irritation. Repeated or prolonged contact may cause skin irritation with discomfort and dermatitis.

**Lead chromate molybdate**

Is an IARC, NTP or OSHA carcinogen. Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula:  $\text{limit(in ug/m}^3\text{)} = 400/\text{hours worked in the day}$ . Health studies have shown that chromate pigment manufacturing may be associated with an increase risk of lung cancer. Repeated or prolonged skin contact may cause any of the following: dermatitis, allergic contact dermatitis. The following medical conditions may be aggravated by overexposure: asthma. Repeated or prolonged skin or eye contact may cause any of the following: irritation. Repeated or prolonged inhalation may cause any of the following: respiratory tract irritation, sensitization, asthma-like reactions, e.g. wheezing, chest tightness.

WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

**Lead sulfochromate yellow**

Is an IARC, NTP or OSHA carcinogen. Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula:  $\text{limit(in ug/m}^3\text{)} = 400/\text{hours worked in the day}$ . Health studies have shown that chromate pigment manufacturing may be associated with an increase risk of lung cancer. Repeated or prolonged skin contact may cause any of the following: allergic contact dermatitis. The following medical conditions may be aggravated by overexposure: asthma. Repeated or prolonged skin or eye contact may cause any of the following: irritation. Repeated or prolonged inhalation may cause any of the following: respiratory tract irritation, sensitization, asthma-like reactions, e.g. wheezing, chest tightness.

WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

**Propylene glycol monomethyl ether acetate**

Recurrent overexposure may result in liver and kidney injury.

**Quartz-crystalline silica**

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury.

WARNING: This chemical is known to the State of California to cause cancer.

**Titanium dioxide**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

**Xylene**



Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

#### SECTION 4. First aid measures

##### First Aid Procedures:

###### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

###### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

###### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

#### SECTION 5. Fire-fighting measures

##### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

##### Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

##### Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

##### Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

##### Special Protective Equipment and Fire Fighting Procedures:

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

##### Additional advice:

Cool closed containers exposed to fire with water spray.

#### SECTION 6. Accidental release measures

##### Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO<sub>2</sub> to vent. After 48 hours, material may be sealed and disposed of properly.

##### Ecological information:

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

#### SECTION 7. Handling and storage

##### Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

##### Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

#### SECTION 8. Exposure controls/personal protection

##### Engineering controls and work practices:

###### Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

###### Respiratory protection:

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

###### Protective equipment:

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.





**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	124 – 170 °C
Approx. Freezing Range ( °C)	-74 – 482 °C
Gallon Weight (lbs/gal)	8.17 - 11.54
Specific Gravity	0.98 - 1.38
Percent Volatile By Volume	55.98 - 61.75
Percent Volatile By Weight	35.75 - 54.64
Percent Solids By Volume	38.25 - 44.02
Percent Solids By Weight	45.37 - 64.25

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**10038/90368™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.6%\* @), Xylene(11%\* @)  
**GAL WT: 8.17 WT PCT SOLIDS: 46.89 VOL PCT SOLIDS: 40.59**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10046/90376™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.6%\* @), Xylene(11%\* @)  
**GAL WT: 8.18 WT PCT SOLIDS: 47.06 VOL PCT SOLIDS: 40.73**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10070/88770™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Azo yellow pigment, Butyl acetate, Ethylbenzene(2.1%\* @), Xylene(9%\* @)  
**GAL WT: 8.37 WT PCT SOLIDS: 48.37 VOL PCT SOLIDS: 40.88**  
**SOLVENT DENSITY: 7.29 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10119/88452™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.4%\* @), Perylene maroon, Xylene(10%\* @)  
**GAL WT: 8.27 WT PCT SOLIDS: 47.32 VOL PCT SOLIDS: 40.36**  
**SOLVENT DENSITY: 7.27 VOC LE: 4.4 VOC AP: 4.4**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10127/88568™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.4%\* @), Quinacridone magenta, Xylene(10%\* @)  
**GAL WT: 8.28 WT PCT SOLIDS: 48.26 VOL PCT SOLIDS: 41.33**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10151/88541™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, C.i. pigment violet 23, Ethylbenzene(2.4%\* @), Xylene(10%\* @)  
**GAL WT: 8.24 WT PCT SOLIDS: 46.75 VOL PCT SOLIDS: 39.96**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.4 VOC AP: 4.4**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10160/88789™** 1,2,4-trimethyl benzene(4%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.4%\* @), Phthalocyanine green, Xylene(10%\* @)  
**GAL WT: 8.26 WT PCT SOLIDS: 46.32 VOL PCT SOLIDS: 39.30**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.4 VOC AP: 4.4**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10178/90473™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.6%\* @), Xylene(11%\* @)  
**GAL WT: 8.23 WT PCT SOLIDS: 47.32 VOL PCT SOLIDS: 40.69**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10186/87669™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.6%\* @), Xylene(11%\* @)  
**GAL WT: 8.23 WT PCT SOLIDS: 47.35 VOL PCT SOLIDS: 40.70**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10194/90490™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.6%\* @), Xylene(11%\* @)  
**GAL WT: 8.18 WT PCT SOLIDS: 46.84 VOL PCT SOLIDS: 40.49**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**





**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10208™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.4%\* @), Titanium dioxide(22.9%), Xylene(10%\* @)

**GAL WT: 9.88 WT PCT SOLIDS: 58.29 VOL PCT SOLIDS: 43.58**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.1 VOC AP: 4.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10216/89017™** 1,2,4-trimethyl benzene(4%\*), Aromatic hydrocarbon, Butyl acetate, Carbon black(2.2%), Ethylbenzene(2.5%\* @), Hydro-treated heavy naphtha (petroleum), Polyacrylic resin, Xylene(10%\* @)

**GAL WT: 8.25 WT PCT SOLIDS: 45.68 VOL PCT SOLIDS: 38.64**  
**SOLVENT DENSITY: 7.27 VOC LE: 4.5 VOC AP: 4.5**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10224/89050™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.6%\* @), Iron hydroxide, Xylene(11%\* @)

**GAL WT: 8.76 WT PCT SOLIDS: 51.12 VOL PCT SOLIDS: 41.39**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10232/89149/90201™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.5%\* @), Phthalocyanine green pigment, Xylene(10%\* @)

**GAL WT: 8.45 WT PCT SOLIDS: 49.64 VOL PCT SOLIDS: 41.79**  
**SOLVENT DENSITY: 7.29 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10240/88517™** 1,2,4-trimethyl benzene(4%\*), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Carbon black(1.5%), Ethylbenzene(2.7%\* @), Polyacrylic resin, Xylene(11%\* @)

**GAL WT: 8.27 WT PCT SOLIDS: 47.17 VOL PCT SOLIDS: 40.20**  
**SOLVENT DENSITY: 7.27 VOC LE: 4.4 VOC AP: 4.4**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10291/88525/84406™** 1,2,4-trimethyl benzene(4%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.5%\* @), Iron oxide, Xylene(10%\* @)

**GAL WT: 8.81 WT PCT SOLIDS: 51.46 VOL PCT SOLIDS: 41.47**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10305/87782/84635™** 1,2,4-trimethyl benzene(4%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.4%\* @), Quinacridone pigment, Xylene(10%\* @)

**GAL WT: 8.27 WT PCT SOLIDS: 48.22 VOL PCT SOLIDS: 41.42**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10313/87979™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.5%\* @), Phthalocyanine blue pigment, Xylene(10%\* @)

**GAL WT: 8.26 WT PCT SOLIDS: 48.52 VOL PCT SOLIDS: 41.76**

**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10321/88908/84538™** 1,2,4-trimethyl benzene(4%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.4%\* @), Phthalocyanine blue pigment, Xylene(10%\* @)

**GAL WT: 8.28 WT PCT SOLIDS: 48.17 VOL PCT SOLIDS: 41.22**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10330/87677™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Carbon black(0.1%), Ethylbenzene(2.6%\* @), Polyacrylic resin, Xylene(11%\* @)

**GAL WT: 8.17 WT PCT SOLIDS: 46.84 VOL PCT SOLIDS: 40.52**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.3 VOC AP: 4.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10879™** 1,2,4-trimethyl benzene(4%\*), Acrylic polymer, Aromatic hydrocarbon, Butyl acetate, Carbon black(1.9%), Ethylbenzene(3.2%\* @), Polyacrylic resin, Xylene(13%\* @)

**GAL WT: 8.27 WT PCT SOLIDS: 45.57 VOL PCT SOLIDS: 38.46**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.5 VOC AP: 4.5**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10887™** 1,2,4-trimethyl benzene(2%\*), Aromatic hydrocarbon, Barium sulfate, Butyl acetate, Carbon black(1.5%), Chlorite, Ethylbenzene(1.2%\* @), Hydrous magnesium silicate, Polyacrylic resin, Quartz-crystalline silica(0.2%), Xylene(5%\* @)

**GAL WT: 11.27 WT PCT SOLIDS: 63.65 VOL PCT SOLIDS: 44.02**  
**SOLVENT DENSITY: 7.29 VOC LE: 4.1 VOC AP: 4.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**11522™** 1,2,4-trimethyl benzene(4%\*), 1,3,5-trimethyl benzene, Acrylic polymer, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, C.i. pigment red 254, Ethylbenzene(2.3%\* @), Polyacrylic resin, Propylene glycol monomethyl ether acetate, Xylene(10%\* @)

**GAL WT: 8.35 WT PCT SOLIDS: 50.52 VOL PCT SOLIDS: 43.65**  
**SOLVENT DENSITY: 7.31 VOC LE: 4.1 VOC AP: 4.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14009™** 1,2,4-trimethyl benzene(4%\*), Acrylic polymer, Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Carbon black(2.6%), Ethylbenzene(3.4%\* @), Polyacrylic resin, Xylene(14%\* @)

**GAL WT: 8.26 WT PCT SOLIDS: 45.37 VOL PCT SOLIDS: 38.25**  
**SOLVENT DENSITY: 7.29 VOC LE: 4.5 VOC AP: 4.5**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14360™** 1,2,4-trimethyl benzene(3%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.2%\* @), Lead sulfochromate yellow(36.5%\* @), Wetting agents/surfactants/release agents, Xylene(9%\* @)

**GAL WT: 11.54 WT PCT SOLIDS: 64.25 VOL PCT SOLIDS: 43.53**  
**SOLVENT DENSITY: 7.28 VOC LE: 4.1 VOC AP: 4.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**





**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14378™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Antimony trioxide(0.7%\* @), Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.2%\* @), Lead chromate molybdate(23.8%\* @), Xylene(9%\* @)

**GAL WT: 10.19 WT PCT SOLIDS: 59.15 VOL PCT SOLIDS: 42.98**

**SOLVENT DENSITY: 7.27 VOC LE: 4.2 VOC AP: 4.2**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14386™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.4%\* @), Lead sulfochromate yellow(25.5%\* @), Xylene(10%\* @)

**GAL WT: 10.28 WT PCT SOLIDS: 59.14 VOL PCT SOLIDS: 42.46**

**SOLVENT DENSITY: 7.26 VOC LE: 4.2 VOC AP: 4.2**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14750/81490™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Diazo pigment, Ethylbenzene(1.8%\* @), Xylene(7%\* @)

**GAL WT: 8.47 WT PCT SOLIDS: 47.94 VOL PCT SOLIDS: 39.78**

**SOLVENT DENSITY: 7.30 VOC LE: 4.4 VOC AP: 4.4**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14769/81504™** 1,2,4-trimethyl benzene(4%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(2.1%\* @), Hydrotreated heavy naphtha (petroleum), Monoazo pigment, Xylene(9%\* @)

**GAL WT: 8.52 WT PCT SOLIDS: 51.27 VOL PCT SOLIDS: 43.07**

**SOLVENT DENSITY: 7.26 VOC LE: 4.2 VOC AP: 4.2**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.







**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standex  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **12 - 2K HS Standocryl®**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: HS-643 (14912), HS-659 (14556), HS-653 (14548), HS-629 (14505), HS-669 (14254), HS-666 (14246), HS-662 (14238), HS-661 (14220), HS-655 (14211), HS-651 (14190), HS-650 (14181), HS-646 (14173), HS-645 (14165), HS-644 (14157), HS-634 (14130), HS-633 (14122), HS-631 (14114), HS-627 (14106), HS-625 (14092), HS-623 (14084), HS-622 (14076), HS-613 (14068), HS-612 (14050), HS-610 (14041/15005)

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Bismuth vanadium oxide	14059-33-7	None	A None O None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
C.i. pigment red 254	84632-65-5	None	A None O None
Carbazole violet pigment	6358-30-1	None	A None O None
Carbon black	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
Iron hydroxide	20344-49-4	None	A None O None
Iron oxide	1309-37-1	None	A 5.0 mg/m3 Respirable Dust O 10.0 mg/m3 D 3.0 mg/m3

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
1,2,4-trimethyl benzene	95-63-6	7.0@44.4°C	A 25.0 ppm O 25.0 ppm
1,3,5-trimethyl benzene	108-67-8	None	A 25.0 ppm O None
2-butoxyethyl acetate	112-07-2	0.4	A 130.0 mg/m3 D 10.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA O None
Acrylic polymer	NotAvail	3.6@25.0°C	A None O None
Acrylic resin	98613-27-5	None	A None O None
Amorphous silica	7631-86-9	None	A 10.0 mg/m3 Total Dust O 20.0 mppcf D 3.0 mg/m3
Aromatic hydrocarbon	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None
Azo yellow pigment	31837-42-0	None	A 10.0 mg/m3 O 5.0 mg/m3 Respirable Dust O 15.0 mg/m3
Isoindolinone pigment	36888-99-0	None	A None O None
Methyl isoamyl ketone	110-12-3	5.3	A None O None
Monoazo pigment	12236-62-3	None	A 10.0 mg/m3 inhalable dust particulate O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
Phthalocyanine blue pigment	147-14-8	None	A 10.0 mg/m3 inhalable dust PNOG A 3.0 mg/m3 respirable particulate PNOG O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 TWA Respirable Dust PNOR





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Phthalocyanine green	1328-53-6	None	A 3.0 mg/m3 TWA Respirable Dust A 10.0 mg/m3 TWA inhalable dust O 15.0 mg/m3 TWA Total Dust O 5.0 mg/m3 TWA Respirable Dust
Phthalocyanine green pigment	68512-13-0	None	A None O None
Polyacrylic resin	NotAvail	None	A None O None
Polycyclic pigments: red	4051-63-2	None	A None O None
Polyester resin-A	NotAvail	None	A None O None
Polyester resin-B	55447-58-0	None	A None O None
Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None
Quinacridone magenta	980-26-7	None	A None O None
Quinacridone pigment	1047-16-1	None	A 10.0 mg/m3 inhalable dust A 3.0 mg/m3 O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust
Titanium dioxide	13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

**SECTION 3. Hazards identification**

**Potential Health Effects:**

**Inhalation:**

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

**Ingestion:**

May result in gastrointestinal distress.

**Skin or eye contact:**

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**Other Potential Health Effects in addition to those listed above:**

**Acrylic polymer**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin.

**Acrylic resin**

Skin or eye contact may cause any of the following: irritation.

**Aromatic hydrocarbon**

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**Butyl acetate**

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

**Carbon black**

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease.  
WARNING: This chemical is known to the State of California to cause cancer.

**Ethylbenzene**

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the



effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

#### Methyl isoamyl ketone

Extremely high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney and adrenal gland. In addition liver injury was observed.

#### Polyester resin-A

Eye contact may cause any of the following: irritation.

#### Propylene glycol monomethyl ether acetate

Recurrent overexposure may result in liver and kidney injury.

#### Titanium dioxide

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

#### Xylene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

### SECTION 4. First aid measures

#### First Aid Procedures:

##### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

##### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

##### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

### SECTION 5. Fire-fighting measures

#### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

#### Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

#### Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

#### Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

#### Special Protective Equipment and Fire Fighting Procedures:

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

#### Additional advice:

Cool closed containers exposed to fire with water spray.

### SECTION 6. Accidental release measures

#### Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO<sub>2</sub> to vent. After 48 hours, material may be sealed and disposed of properly.

#### Ecological information:

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

### SECTION 7. Handling and storage

#### Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection****Engineering controls and work practices:****Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range (°C)	124 – 170 °C
Approx. Freezing Range (°C)	-74 – 482 °C
Gallon Weight (lbs/gal)	8.45 - 12.23
Specific Gravity	1.01 - 1.47
Percent Volatile By Volume	37.83 - 42.34
Percent Volatile By Weight	24.52 - 36.15
Percent Solids By Volume	57.66 - 62.17
Percent Solids By Weight	63.85 - 75.48

**SECTION 10. Stability and reactivity****Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**14041/15005™** 1,2,4-trimethyl benzene(3%\*), Acrylic resin, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.4%\* @), Polyacrylic resin, Polyester resin-A, Titanium dioxide(28.2%), Xylene(6%\* @)

**GAL WT: 10.92 WT PCT SOLIDS: 72.14 VOL PCT SOLIDS: 58.47**

**SOLVENT DENSITY: 7.26 VOC LE: 3.0 VOC AP: 3.0**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14050™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Carbon black(2.1%), Ethylbenzene(1.5%\* @), Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(6%\* @)

**GAL WT: 8.53 WT PCT SOLIDS: 64.08 VOL PCT SOLIDS: 57.92**

**SOLVENT DENSITY: 7.21 VOC LE: 3.1 VOC AP: 3.1**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14068™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.6%\* @), Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(6%\* @)

**GAL WT: 8.45 WT PCT SOLIDS: 63.85 VOL PCT SOLIDS: 58.03**

**SOLVENT DENSITY: 7.24 VOC LE: 3.1 VOC AP: 3.1**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14076™** 1,2,4-trimethyl benzene(4%\*), Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.2%\* @), Isoindolinone pigment, Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(5%\* @)

**GAL WT: 8.91 WT PCT SOLIDS: 69.17 VOL PCT SOLIDS: 62.17**

**SOLVENT DENSITY: 7.21 VOC LE: 2.7 VOC AP: 2.7**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14084™** 1,2,4-trimethyl benzene(4%\*), Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.3%\* @), Iron hydroxide, Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(5%\* @)

**GAL WT: 9.44 WT PCT SOLIDS: 68.72 VOL PCT SOLIDS: 59.43**

**SOLVENT DENSITY: 7.23 VOC LE: 3.0 VOC AP: 3.0**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14092™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.5%\* @), Iron hydroxide, Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(6%\* @)

**GAL WT: 8.57 WT PCT SOLIDS: 64.50 VOL PCT SOLIDS: 58.19**

**SOLVENT DENSITY: 7.25 VOC LE: 3.0 VOC AP: 3.0**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**





**14106™** 1,2,4-trimethyl benzene(5%), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Azo yellow pigment, Butyl acetate, Ethylbenzene(1.6%\*), Polyacrylic resin, Xylene(7%\*)  
**GAL WT: 8.90 WT PCT SOLIDS: 67.33 VOL PCT SOLIDS: 60.32**  
**SOLVENT DENSITY: 7.27 VOC LE: 2.9 VOC AP: 2.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14114™** 1,2,4-trimethyl benzene(4%), Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.3%\*), Methyl isoamyl ketone, Monoazo pigment, Polyacrylic resin, Polyester resin-A, Xylene(6%\*)  
**GAL WT: 8.89 WT PCT SOLIDS: 68.35 VOL PCT SOLIDS: 61.34**  
**SOLVENT DENSITY: 7.23 VOC LE: 2.8 VOC AP: 2.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14122™** 1,2,4-trimethyl benzene(4%), Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.3%\*), Iron oxide, Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(6%\*)  
**GAL WT: 9.35 WT PCT SOLIDS: 68.05 VOL PCT SOLIDS: 58.97**  
**SOLVENT DENSITY: 7.23 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14130™** 1,2,4-trimethyl benzene(5%), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.5%\*), Iron oxide, Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(6%\*)  
**GAL WT: 8.53 WT PCT SOLIDS: 64.24 VOL PCT SOLIDS: 58.10**  
**SOLVENT DENSITY: 7.25 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14157™** 1,2,4-trimethyl benzene(5%), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.4%\*), Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Quinacridone magenta, Xylene(6%\*)  
**GAL WT: 8.62 WT PCT SOLIDS: 66.25 VOL PCT SOLIDS: 59.98**  
**SOLVENT DENSITY: 7.22 VOC LE: 2.9 VOC AP: 2.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14165™** 1,2,4-trimethyl benzene(4%), Acrylic polymer, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.2%\*), Methyl isoamyl ketone, Polyacrylic resin, Polycyclic pigments: red, Polyester resin-A, Propylene glycol monomethyl ether acetate, Xylene(5%\*)  
**GAL WT: 8.74 WT PCT SOLIDS: 64.74 VOL PCT SOLIDS: 58.14**  
**SOLVENT DENSITY: 7.35 VOC LE: 3.1 VOC AP: 3.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14173™** 1,2,4-trimethyl benzene(5%), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.4%\*), Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Quinacridone pigment, Xylene(6%\*)  
**GAL WT: 8.61 WT PCT SOLIDS: 66.17 VOL PCT SOLIDS: 59.91**  
**SOLVENT DENSITY: 7.21 VOC LE: 2.9 VOC AP: 2.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14181™** 1,2,4-trimethyl benzene(5%), 1,3,5-trimethyl benzene, 2-butoxyethyl acetate(2%\*), Aromatic hydrocarbon, Butyl acetate, Carbazole violet pigment, Ethylbenzene(1.4%\*), Methyl isoamyl ketone,

Polyacrylic resin, Polyester resin-A, Xylene(6%\*)  
**GAL WT: 8.59 WT PCT SOLIDS: 64.33 VOL PCT SOLIDS: 58.01**  
**SOLVENT DENSITY: 7.25 VOC LE: 3.1 VOC AP: 3.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14190™** 1,2,4-trimethyl benzene(5%), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.4%\*), Methyl isoamyl ketone, Phthalocyanine blue pigment, Polyacrylic resin, Polyester resin-A, Xylene(6%\*)  
**GAL WT: 8.61 WT PCT SOLIDS: 65.48 VOL PCT SOLIDS: 59.12**  
**SOLVENT DENSITY: 7.22 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14211™** 1,2,4-trimethyl benzene(5%), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.4%\*), Methyl isoamyl ketone, Phthalocyanine blue pigment, Polyacrylic resin, Polyester resin-A, Xylene(6%\*)  
**GAL WT: 8.63 WT PCT SOLIDS: 65.61 VOL PCT SOLIDS: 59.18**  
**SOLVENT DENSITY: 7.21 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14220™** 1,2,4-trimethyl benzene(4%), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.4%\*), Methyl isoamyl ketone, Phthalocyanine green pigment, Polyacrylic resin, Polyester resin-A, Xylene(6%\*)  
**GAL WT: 8.74 WT PCT SOLIDS: 64.75 VOL PCT SOLIDS: 57.66**  
**SOLVENT DENSITY: 7.22 VOC LE: 3.1 VOC AP: 3.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14238™** 1,2,4-trimethyl benzene(4%), Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.3%\*), Methyl isoamyl ketone, Phthalocyanine green, Polyacrylic resin, Polyester resin-A, Xylene(5%\*)  
**GAL WT: 8.66 WT PCT SOLIDS: 66.11 VOL PCT SOLIDS: 59.60**  
**SOLVENT DENSITY: 7.21 VOC LE: 2.9 VOC AP: 2.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14246™** 1,2,4-trimethyl benzene(4%), 1,3,5-trimethyl benzene, Acrylic polymer, Aromatic hydrocarbon, Butyl acetate, Carbon black(2.6%), Ethylbenzene(1.5%\*), Polyacrylic resin, Polyester resin-B, Propylene glycol monomethyl ether acetate, Xylene(6%\*)  
**GAL WT: 8.75 WT PCT SOLIDS: 65.99 VOL PCT SOLIDS: 60.13**  
**SOLVENT DENSITY: 7.43 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14254™** 1,2,4-trimethyl benzene(5%), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.6%\*), Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(6%\*)  
**GAL WT: 8.46 WT PCT SOLIDS: 63.87 VOL PCT SOLIDS: 58.01**  
**SOLVENT DENSITY: 7.25 VOC LE: 3.1 VOC AP: 3.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**14505™** 1,2,4-trimethyl benzene(3%), Amorphous silica, Aromatic hydrocarbon, Bismuth vanadium oxide(38%), Butyl acetate, Ethylbenzene(1.3%\*), Polyacrylic resin, Polyester resin-A, Xylene(5%\*)





**GAL WT: 12.23 WT PCT SOLIDS: 75.48 VOL PCT SOLIDS: 58.88**  
**SOLVENT DENSITY: 7.25 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**  
**IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14548™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.6%\*@), Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(6%\*@)  
**GAL WT: 8.46 WT PCT SOLIDS: 63.99 VOL PCT SOLIDS: 58.12**  
**SOLVENT DENSITY: 7.24 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**  
**IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14556™** 1,2,4-trimethyl benzene(5%\*), 1,3,5-trimethyl benzene, Aromatic hydrocarbon, Butyl acetate, Ethylbenzene(1.5%\*@), Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Xylene(6%\*@)  
**GAL WT: 8.47 WT PCT SOLIDS: 64.05 VOL PCT SOLIDS: 58.17**  
**SOLVENT DENSITY: 7.24 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**  
**IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14912™** 1,2,4-trimethyl benzene(4%\*), Acrylic polymer, Aromatic hydrocarbon, Butyl acetate, C.i. pigment red 254, Ethylbenzene(1.3%\*@), Methyl isoamyl ketone, Polyacrylic resin, Polyester resin-A, Propylene glycol monomethyl ether acetate, Xylene(5%\*@)  
**GAL WT: 8.98 WT PCT SOLIDS: 66.89 VOL PCT SOLIDS: 60.00**  
**SOLVENT DENSITY: 7.42 VOC LE: 3.0 VOC AP: 3.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**  
**IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.





**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standox  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **13 - Standox® Basecoat (Includes Factory Packs)**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: VW C5S (88479), VW C7W (88401), Mercedes Benz DB 975 (81075), Mercedes DB 031 (70626), MB-598 (16180), VW C9Y (16173), Toyota 3R2 (16172), GM 368N (16164), Basecoat Deep Black (16151), Ford G6 (16148), MB-846 (16143), MB-845 (16142), MB-885 (16109), Nissan USA C15 (16095), MB-844 (16044), MB-843 (16036), Chrysler PVF (16001), MB-827 (15927), MB-826 (15919), Chrysler PB5 (15145), VW C4Z (15137), Chrysler PVE (15129), VW K6L (15110), MB-008 (14700), MB-884 (14343), 2K Basecoat Real Black (14017), MB-856 (12880), PE-836 (12871), MB851 (12758), PE-821 (12707), PE-824 (12677), PE-825 (12669), PE-823 (12650), MB-813 (12634), MB-854 (12626), PE-828 (12596), PE-829 (12588), PE-831 (12553), MB-855 (12529), MB-810 (12472), MB-589 (12391), MB-811 (12375), MB-812 (12367), MB-859 (12359), MB-861 (12316), MB-870 (12308), MB-857 (12120), PE-806 (12111), MB-571 (11948), MB-570 (11930), PE-805 (11859), MB-562 (11581), PE-841 (11220), PE-839 (10992), MB-563 (10895), MB-561 (10763), MB-882 (10739), MB-883 (10712), PE-804 (10690), PE-803 (10682), PE-802 (10674), PE-801 (10666), MB-594 (10658), MB-593 (10640), MB-590 (10631), MB-595 (10615), MB-588 (10593), MB-587 (10585), MB-586 (10577), MB-585 (10569), MB-583 (10542), MB-582 (10534), MB-581 (10526), MB-580 (10518), MB-579 (10500), MB-577 (10488), MB-576 (10470), MB-575 (10461), MB-574 (10453), MB-573 (10445), MB-569 (10402), MB-567 (10380), MB-566 (10372), MB-564 (10356)

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
2-butoxyethyl acetate	112-07-2	0.4	A 130.0 mg/m3 D 10.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA O None
Aluminum	7429-90-5	None	A 1.0 mg/m3 Respirable Dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA
Aluminum oxide	1344-28-1	None	A 10.0 mg/m3

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Anthraquinone pigment	81-77-6	None	O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust A 10.0 mg/m3 O None
Aromatic hydrocarbon	64742-94-5	0.9	D 100.0 ppm A None O None
Azo yellow pigment	31837-42-0	None	A 10.0 mg/m3 O 5.0 mg/m3 Respirable Dust O 15.0 mg/m3
Azomethine copper-complex	15680-42-9	None	A None O None
Bismuth vanadium oxide	14059-33-7	None	A None O None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
C.i. pigment blue 60	81-77-6	None	A None O None
C.i. pigment red 254	84632-65-5	None	A None O None
C.i. pigment violet 23	6358-30-1	None	A None O None
Carbon black	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA
Cellulose acetate butyrate	9004-36-8	None	A None O None
Chrome complex black dye	117527-94-3	1.5@25.0°C	A None O None
Chromium(iii) oxide (2:3)	1308-38-9	None	A 0.5 mg/m3 Cr O 0.5 mg/m3 Cr

Diazo pigment	5979-28-2	None	A 10.0 mg/m3 O None
Diethylene glycol monobutyl ether acetate	124-17-4	0.0	A None O None
Dipropylene glycol methyl ether	34590-94-8	0.4@25.0°C	A 150.0 ppm 15 min STEL Skin A 100.0 ppm





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS	INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
			Skin O 600.0 mg/m3 PEL Skin O 100.0 ppm Skin				A 200.0 ppm O 200.0 ppm D 300.0 ppm 15 min TWA D 200.0 ppm 8 & 12 hour TWA
Esters high boiling point	7397-62-8	None	A None O None	Mica	12001-26-2	None	A 3.0 mg/m3 Respirable Dust O 20.0 mppcf O 3.0 mg/m3 Respirable Dust
Ethoxypropyl acetate	98516-30-4	2.3	A None O None	Mixed terpene hydrocarbons	138-86-3	2.1	A None O None
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA	Monoazo pigment	12236-62-3	None	A 10.0 mg/m3 inhalable dust particulate O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
Formaldehyde	50-00-0	None	A 0.3 ppm CEIL O 2.0 ppm 15 min STEL O 0.8 ppm D 1.0 ppm 15 min TWA D 0.5 ppm 8 & 12 hour TWA	N-butoxypropanol	5131-66-8	0.6	D 50.0 ppm 8 & 12 hour TWA A None O None
Graphite, synthetic	7782-42-5	None	A 2.0 mg/m3 Respirable Dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust	N-butyl alcohol	71-36-3	5.6@68.0°F	A 20.0 ppm O 100.0 ppm D 50.0 ppm 15 min TWA D 25.0 ppm
Hydrotreated heavy naphtha (petroleum)	64742-48-9	0.7@68.0°F	A 100.0 ppm O 500.0 ppm D 100.0 ppm	Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	5.1	A None O None
Iron hydroxide	20344-49-4	None	A None O None	Perylene maroon	5521-31-3	None	A None O None
Iron oxide-A	1309-37-1	None	A 5.0 mg/m3 Respirable Dust O 10.0 mg/m3 D 3.0 mg/m3	Perylene pigment	5521-31-3	None	A 10.0 mg/m3 O None
Iron oxide-B	51274-00-1	None	A None O None	Phthalocyanine blue pigment	147-14-8	None	A 10.0 mg/m3 inhalable dust PNOC A 3.0 mg/m3 respirable particulate PNOC O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 TWA Respirable Dust PNOR
Isobutyl alcohol	78-83-1	9.7@22.0°C	A 50.0 ppm O 100.0 ppm	Phthalocyanine green	1328-53-6	None	A 3.0 mg/m3 TWA Respirable Dust A 10.0 mg/m3 TWA
Magnesium fluoride	7783-40-6	None	A 2.5 mg/m3 TWA O 2.5 mg/m3 TWA				
Melamine resin	68002-21-1	11.0	A None O None				
Methyl ethyl ketone	78-93-3	71.2	A 300.0 ppm 15 min STEL				





INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS	INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
			inhalable dust O 15.0 mg/m3 TWA Total Dust O 5.0 mg/m3 TWA Respirable Dust				Total Dust D 5.0 mg/m3 Respirable Dust
Phthalocyanine green pigment	68512-13-0	None	A None O None	Titanium dioxide, anatase	1317-70-0	None	A None O None
Pigment red 202	3089-17-6	None	A 3.0 mg/m3 Respirable Dust A 10.0 mg/m3 inhalable dust PNOR O 5.0 mg/m3 Respirable Dust PNOR O 15.0 mg/m3	Urea-formaldehyde condensation polymer	9011-05-6	None	A None O None
				Water	7732-18-5	23.6	A None O None
Polyacrylic resin	74508-30-8	None	A None O None	Wetting agents for solvent borne coatings	NotAvail	3.9	A None O None
Polycyclic pigments: red	4051-63-2	None	A None O None	Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA
Propanol, 1(or 2)-ethoxy-	1569-02-4	10.0	A None O None	<b>*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.</b>			
Quinacridone magenta	980-26-7	None	A None O None	<b>SECTION 3. Hazards identification</b>			
Quinacridone pigment	1047-16-1	None	A 10.0 mg/m3 inhalable dust A 3.0 mg/m3 O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust	<p><b>Potential Health Effects:</b> <b>Inhalation:</b> May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.</p> <p><b>Ingestion:</b> May result in gastrointestinal distress.</p> <p><b>Skin or eye contact:</b> May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.</p> <p><b>Other Potential Health Effects in addition to those listed above:</b> <b>Aromatic hydrocarbon</b> Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.</p> <p><b>Butyl acetate</b> May cause abnormal liver function. The following medical conditions may</p>			
Tetrachloroisosolinone yellow pigment	5590-18-1	None	A 250.0 ppm O None				
Titanium dioxide	13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust				
Titanium dioxide (rutile)	1317-80-2	None	A 10.0 mg/m3 TWA Total Dust O 10.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3				



be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

#### **Carbon black**

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease.

WARNING: This chemical is known to the State of California to cause cancer.

#### **Diethylene glycol monobutyl ether acetate**

Recurrent overexposure may result in liver and kidney injury.

#### **Ethylbenzene**

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

WARNING: This chemical is known to the State of California to cause cancer.

#### **Formaldehyde**

Is an IARC, NTP or OSHA carcinogen. May induce pulmonary sensitization or significant irritation of the respiratory airways. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: cardiovascular system, eyes, kidneys, liver, lungs, skin. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. Epidemiology studies conducted to date have not found evidence of formaldehyde related tumor induction in humans. Repeated or prolonged eye contact may cause any of the following: corneal injury. WARNING: This chemical is known to the State of California to cause cancer.

#### **Graphite, synthetic**

Breathing of fume or dust may aggravate asthma and cause fibrotic pulmonary disease.

#### **Hydrotreated heavy naphtha (petroleum)**

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

#### **Isobutyl alcohol**

Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause irritation of the mucous membranes. May cause abnormal liver function. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: bone marrow, liver. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns.

#### **Magnesium fluoride**

If ingested, may be: moderately toxic. Skin or eye contact may cause any of the following: irritation. Inhalation may cause irritation to any of the following: upper respiratory system. Ingestion may cause irritation to any of the following: throat, mouth.

#### **Melamine resin**

This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. May induce pulmonary sensitization or significant irritation of the respiratory airways. Formaldehyde has produced tumors in the nasal

passages of laboratory animals when exposed to high concentrations for a two year period. IARC has concluded epidemiology studies found evidence of formaldehyde related nasopharyngeal cancer in humans and have classified formaldehyde as a confirmed human carcinogen. DuPont toxicologists have reviewed these studies and classified formaldehyde as a possible human carcinogen.

#### **Methyl ethyl ketone**

Material is irritating to mucous membranes and upper respiratory tract. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, eyes, respiratory system, skin. Prolonged or repeated overexposure may cause any of the following: conjunctivitis, dermatitis. High concentrations have caused embryotoxic effects in laboratory animals. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

#### **Mica**

Repeated or prolonged inhalation may cause any of the following: lung irritation. Long-term respiratory exposure exceeding TLV may damage the lungs, leading to bronchitis and impairment of lung capacity.

#### **N-butoxypropanol**

The following medical conditions may be aggravated by exposure: skin disorders. Repeated or prolonged skin contact may cause any of the following: irritation, burns. Eye contact may cause any of the following: irritation, corneal injury.

#### **N-butyl alcohol**

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

#### **Titanium dioxide**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

#### **Titanium dioxide (rutile)**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

#### **Titanium dioxide, anatase**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that



employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

**Urea-formaldehyde condensation polymer**

This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. May induce pulmonary sensitization or significant irritation of the respiratory airways. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. IARC has concluded epidemiology studies found evidence of formaldehyde related nasopharyngeal cancer in humans and have classified formaldehyde as a confirmed human carcinogen. DuPont toxicologists have reviewed these studies and classified formaldehyde as a possible human carcinogen.

**Xylene**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

**SECTION 4. First aid measures**

**First Aid Procedures:**

**Inhalation:**

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

**Ingestion:**

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

**Skin or eye contact:**

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

**SECTION 5. Fire-fighting measures**

**Hazardous combustion products:**

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

**Fire and Explosion Hazards:**

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**Extinguishing Media:**

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

**Fire Fighting Procedures:**

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

**Special Protective Equipment and Fire Fighting Procedures:**

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

**Additional advice:**

Cool closed containers exposed to fire with water spray.

**SECTION 6. Accidental release measures**

**Procedures for cleaning up spills or leaks:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO2 to vent. After 48 hours, material may be sealed and disposed of properly.

**Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

**SECTION 7. Handling and storage**

**Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection**

**Engineering controls and work practices:**

**Ventilation:**





Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**SECTION 11. Additional Information**

**Respiratory protection:**

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	85 – 195 °C
Approx. Freezing Range ( °C)	-90 – 482 °C
Gallon Weight (lbs/gal)	7.69 - 9.61
Specific Gravity	0.92 - 1.15
Percent Volatile By Volume	76.30 - 87.05
Percent Volatile By Weight	58.19 - 81.29
Percent Solids By Volume	12.95 - 23.70
Percent Solids By Weight	18.71 - 41.81

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**10356™** 2-butoxyethyl acetate(5%@), Butyl acetate, Carbon black(0.4%), Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.74 WT PCT SOLIDS: 22.15 VOL PCT SOLIDS: 17.00**

**SOLVENT DENSITY: 7.27 VOC LE: 6.0 VOC AP: 6.0**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10372™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.2%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Quinacridone pigment, Xylene(5%\* @)

**GAL WT: 7.88 WT PCT SOLIDS: 26.55 VOL PCT SOLIDS: 20.35**

**SOLVENT DENSITY: 7.27 VOC LE: 5.8 VOC AP: 5.8**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10380™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.1%\* @), Formaldehyde(0.1% #\* @), Iron oxide-A, Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 8.31 WT PCT SOLIDS: 30.25 VOL PCT SOLIDS: 19.84**

**SOLVENT DENSITY: 7.24 VOC LE: 5.8 VOC AP: 5.8**

**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10402™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.2%\* @), N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(5%\* @)

**GAL WT: 7.77 WT PCT SOLIDS: 23.41 VOL PCT SOLIDS: 18.28**

**SOLVENT DENSITY: 7.29 VOC LE: 5.9 VOC AP: 5.9**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10445™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(1.1%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Phthalocyanine green pigment, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 8.04 WT PCT SOLIDS: 27.18 VOL PCT SOLIDS: 19.24**

**SOLVENT DENSITY: 7.25 VOC LE: 5.8 VOC AP: 5.8**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10453™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(0.9%\* @), Iron hydroxide, Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 8.15 WT PCT SOLIDS: 26.21 VOL PCT SOLIDS: 17.32**

**SOLVENT DENSITY: 7.27 VOC LE: 6.0 VOC AP: 6.0**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10461™** 2-butoxyethyl acetate(3%@), Azo yellow pigment, Butyl acetate,



Cellulose acetate butyrate, Ethylbenzene(1.0%\*), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.87 WT PCT SOLIDS: 25.99 VOL PCT SOLIDS: 19.58**  
**SOLVENT DENSITY: 7.24 VOC LE: 5.8 VOC AP: 5.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10470™** 2-butoxyethyl acetate(3%\*), Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.0%\*), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Quinacridone magenta, Xylene(4%\* @)

**GAL WT: 7.82 WT PCT SOLIDS: 23.92 VOL PCT SOLIDS: 18.20**  
**SOLVENT DENSITY: 7.27 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10488™** 2-butoxyethyl acetate(3%\*), Butyl acetate, Cellulose acetate butyrate, Diazo pigment, Ethylbenzene(1.1%\*), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.89 WT PCT SOLIDS: 26.88 VOL PCT SOLIDS: 20.35**  
**SOLVENT DENSITY: 7.24 VOC LE: 5.8 VOC AP: 5.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10500™** 2-butoxyethyl acetate(3%\*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(1.3%\*), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, Monoazo pigment, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(5%\* @)

**GAL WT: 7.93 WT PCT SOLIDS: 28.83 VOL PCT SOLIDS: 21.91**  
**SOLVENT DENSITY: 7.23 VOC LE: 5.6 VOC AP: 5.6**  
**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10518™** 2-butoxyethyl acetate(3%\*), Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.3%\*), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Polyacrylic resin, Tetrachloroisosolinone yellow pigment, Xylene(5%\* @)

**GAL WT: 8.08 WT PCT SOLIDS: 30.35 VOL PCT SOLIDS: 22.65**  
**SOLVENT DENSITY: 7.30 VOC LE: 5.6 VOC AP: 5.6**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10526™** 2-butoxyethyl acetate(3%\*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(0.8%\*), Iron oxide-B, Isobutyl alcohol, Melamine resin, N-butyl alcohol(10%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(3%\* @)

**GAL WT: 8.07 WT PCT SOLIDS: 24.62 VOL PCT SOLIDS: 16.02**  
**SOLVENT DENSITY: 7.25 VOC LE: 6.1 VOC AP: 6.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10534™** 2-butoxyethyl acetate(4%\*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(0.8%\*), Iron oxide-A, Iron oxide-B, Isobutyl alcohol, Melamine resin, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(3%\* @)

**GAL WT: 8.08 WT PCT SOLIDS: 24.52 VOL PCT SOLIDS: 16.05**  
**SOLVENT DENSITY: 7.33 VOC LE: 6.1 VOC AP: 6.1**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10542™** 2-butoxyethyl acetate(3%\*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(0.9%\*), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Perylene maroon, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.83 WT PCT SOLIDS: 24.19 VOL PCT SOLIDS: 18.01**  
**SOLVENT DENSITY: 7.24 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10569™** 2-butoxyethyl acetate(3%\*), Butyl acetate, C.i. pigment blue 60, Cellulose acetate butyrate, Ethylbenzene(1.0%\*), Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.76 WT PCT SOLIDS: 22.49 VOL PCT SOLIDS: 17.04**  
**SOLVENT DENSITY: 7.25 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10577™** 2-butoxyethyl acetate(3%\*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(1.0%\*), Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Perylene pigment, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.82 WT PCT SOLIDS: 23.70 VOL PCT SOLIDS: 17.65**  
**SOLVENT DENSITY: 7.26 VOC LE: 6.0 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10585™** 2-butoxyethyl acetate(3%\*), Azomethine copper-complex(6%\*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(0.9%\*), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.82 WT PCT SOLIDS: 23.84 VOL PCT SOLIDS: 17.73**  
**SOLVENT DENSITY: 7.23 VOC LE: 6.0 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10593™** 2-butoxyethyl acetate(3%\*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(1.2%\*), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Phthalocyanine blue pigment, Polyacrylic resin, Xylene(5%\* @)

**GAL WT: 7.83 WT PCT SOLIDS: 24.95 VOL PCT SOLIDS: 18.80**  
**SOLVENT DENSITY: 7.24 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10615™** Aluminum(3%), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(0.9%\*), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)

**GAL WT: 7.82 WT PCT SOLIDS: 22.00 VOL PCT SOLIDS: 16.07**  
**SOLVENT DENSITY: 7.26 VOC LE: 6.1 VOC AP: 6.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10631™** Aluminum(3%), Butyl acetate, Cellulose acetate butyrate,



Dipropylene glycol methyl ether, Ethylbenzene(0.9%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butoxypropanol, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)  
**GAL WT: 7.82 WT PCT SOLIDS: 23.02 VOL PCT SOLIDS: 16.79**  
**SOLVENT DENSITY: 7.24 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10640™** Aluminum(3%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(1.0%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butoxypropanol, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)  
**GAL WT: 7.84 WT PCT SOLIDS: 23.40 VOL PCT SOLIDS: 17.56**  
**SOLVENT DENSITY: 7.24 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10658™** Aluminum(3%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(0.9%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butoxypropanol, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)  
**GAL WT: 7.87 WT PCT SOLIDS: 22.94 VOL PCT SOLIDS: 16.51**  
**SOLVENT DENSITY: 7.24 VOC LE: 6.1 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10666™** 2-butoxyethyl acetate(4% @), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(2.9%), Xylene(4%\* @)  
**GAL WT: 8.33 WT PCT SOLIDS: 29.16 VOL PCT SOLIDS: 19.34**  
**SOLVENT DENSITY: 7.31 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10674™** 2-butoxyethyl acetate(4% @), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(5.9%), Xylene(4%\* @)  
**GAL WT: 8.33 WT PCT SOLIDS: 29.16 VOL PCT SOLIDS: 19.26**  
**SOLVENT DENSITY: 7.31 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10682™** 2-butoxyethyl acetate(4% @), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(0.9%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(4.5%), Xylene(4%\* @)  
**GAL WT: 8.30 WT PCT SOLIDS: 28.48 VOL PCT SOLIDS: 18.78**  
**SOLVENT DENSITY: 7.31 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10690™** 2-butoxyethyl acetate(4% @), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point,

Ethylbenzene(1.0%\* @), Iron oxide-A, Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(1.2%), Xylene(4%\* @)  
**GAL WT: 8.37 WT PCT SOLIDS: 29.50 VOL PCT SOLIDS: 19.26**  
**SOLVENT DENSITY: 7.31 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10712™** 2-butoxyethyl acetate(4% @), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(0.9%\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(10%\*), Naphtha (petroleum), hydrodesulfurized heavy, Perylene maroon, Polyacrylic resin, Xylene(3%\* @)  
**GAL WT: 7.83 WT PCT SOLIDS: 24.09 VOL PCT SOLIDS: 17.90**  
**SOLVENT DENSITY: 7.24 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10739™** 2-butoxyethyl acetate(6% @), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(0.8%\* @), Iron oxide-A, Iron oxide-B, Isobutyl alcohol, Melamine resin, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(3%\* @)  
**GAL WT: 8.18 WT PCT SOLIDS: 26.23 VOL PCT SOLIDS: 17.04**  
**SOLVENT DENSITY: 7.37 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**10763™** Butyl acetate, C.i. pigment red 254, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.3%\* @), Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Polyacrylic resin, Xylene(5%\* @)  
**GAL WT: 7.88 WT PCT SOLIDS: 27.66 VOL PCT SOLIDS: 21.30**  
**SOLVENT DENSITY: 7.25 VOC LE: 5.7 VOC AP: 5.7**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10895™** 2-butoxyethyl acetate(3% @), Butyl acetate, Carbon black(4.0%), Cellulose acetate butyrate, Ethylbenzene(0.9%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)  
**GAL WT: 7.83 WT PCT SOLIDS: 23.80 VOL PCT SOLIDS: 17.59**  
**SOLVENT DENSITY: 7.24 VOC LE: 6.0 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**10992™** 2-butoxyethyl acetate(4% @), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(6.3%), Xylene(4%\* @)  
**GAL WT: 8.37 WT PCT SOLIDS: 29.16 VOL PCT SOLIDS: 18.90**  
**SOLVENT DENSITY: 7.31 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**11220™** 2-butoxyethyl acetate(4% @), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Iron oxide-A, Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(1.5%), Xylene(4%\* @)  
**GAL WT: 8.35 WT PCT SOLIDS: 29.16 VOL PCT SOLIDS: 19.10**  
**SOLVENT DENSITY: 7.31 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**





**11581™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(0.9%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Phthalocyanine blue pigment, Polyacrylic resin, Xylene(4%\* @)  
**GAL WT: 7.76 WT PCT SOLIDS: 21.10 VOL PCT SOLIDS: 15.57**  
**SOLVENT DENSITY: 7.25 VOC LE: 6.1 VOC AP: 6.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**11859™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Iron oxide-A, Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(1.6%), Xylene(4%\* @)  
**GAL WT: 8.36 WT PCT SOLIDS: 29.28 VOL PCT SOLIDS: 19.22**  
**SOLVENT DENSITY: 7.32 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**11930™** 2-butoxyethyl acetate(2%@), Butyl acetate, Cellulose acetate butyrate, Diethylene glycol monobutyl ether acetate(2%\* @), Esters high boiling point, Ethylbenzene(0.8%\* @), N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide(18.9%), Xylene(3%\* @)  
**GAL WT: 9.00 WT PCT SOLIDS: 34.96 VOL PCT SOLIDS: 19.78**  
**SOLVENT DENSITY: 7.30 VOC LE: 5.8 VOC AP: 5.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**11948™** 2-butoxyethyl acetate(3%@), Butyl acetate, Carbon black(2.3%), Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.1%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(10%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)  
**GAL WT: 7.82 WT PCT SOLIDS: 23.14 VOL PCT SOLIDS: 17.59**  
**SOLVENT DENSITY: 7.30 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**12111™** Aluminum(8%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(0.8%\* @), Formaldehyde(0.1% #\* @), Hydrotreated heavy naphtha (petroleum), Iron oxide-A, Isobutyl alcohol, Melamine resin, N-butoxypropanol, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(3%\* @)  
**GAL WT: 8.22 WT PCT SOLIDS: 28.25 VOL PCT SOLIDS: 17.81**  
**SOLVENT DENSITY: 7.17 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**12120™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(1.4%\* @), Mixed terpene hydrocarbons, N-butyl alcohol(7%\*), Polyacrylic resin, Polycyclic pigments: red, Xylene(5%\* @)  
**GAL WT: 7.87 WT PCT SOLIDS: 26.06 VOL PCT SOLIDS: 20.22**  
**SOLVENT DENSITY: 7.32 VOC LE: 5.8 VOC AP: 5.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**12308™** 2-butoxyethyl acetate(6%@), Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.0%\* @), N-butyl alcohol(5%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic

resin, Titanium dioxide(25.0%), Xylene(4%\* @)  
**GAL WT: 9.61 WT PCT SOLIDS: 41.81 VOL PCT SOLIDS: 23.70**  
**SOLVENT DENSITY: 7.34 VOC LE: 5.6 VOC AP: 5.6**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**12316™** 2-butoxyethyl acetate(6%@), Butyl acetate, C.i. pigment red 254, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.3%\* @), Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(5%\* @)  
**GAL WT: 8.03 WT PCT SOLIDS: 30.23 VOL PCT SOLIDS: 23.03**  
**SOLVENT DENSITY: 7.29 VOC LE: 5.6 VOC AP: 5.6**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**12359™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(1.2%\* @), Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Phthalocyanine blue pigment, Polyacrylic resin, Wetting agents for solvent borne coatings, Xylene(5%\* @)  
**GAL WT: 7.81 WT PCT SOLIDS: 23.78 VOL PCT SOLIDS: 17.92**  
**SOLVENT DENSITY: 7.26 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**12367™** Aluminum(3%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(0.6%\* @), N-butoxypropanol, N-butyl alcohol(11%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(2%\* @)  
**GAL WT: 7.79 WT PCT SOLIDS: 18.79 VOL PCT SOLIDS: 12.95**  
**SOLVENT DENSITY: 7.27 VOC LE: 6.3 VOC AP: 6.3**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**12375™** Aluminum(4%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(0.9%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butoxypropanol, N-butyl alcohol(10%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)  
**GAL WT: 7.89 WT PCT SOLIDS: 23.47 VOL PCT SOLIDS: 16.77**  
**SOLVENT DENSITY: 7.26 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**12391™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.1%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Phthalocyanine green, Polyacrylic resin, Xylene(4%\* @)  
**GAL WT: 7.93 WT PCT SOLIDS: 25.31 VOL PCT SOLIDS: 18.46**  
**SOLVENT DENSITY: 7.26 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**12472™** 2-butoxyethyl acetate(5%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(0.8%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide(8.9%), Xylene(3%\* @)  
**GAL WT: 8.38 WT PCT SOLIDS: 27.64 VOL PCT SOLIDS: 17.30**



SOLVENT DENSITY: 7.34 VOC LE: 6.1 VOC AP: 6.0  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12529™** 2-butoxyethyl acetate(3%@), Butyl acetate, C.i. pigment violet 23, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.6%\* @), Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(6%\* @)

GAL WT: 7.85 WT PCT SOLIDS: 27.21 VOL PCT SOLIDS: 21.43  
SOLVENT DENSITY: 7.28 VOC LE: 5.7 VOC AP: 5.7  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES

**12553™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(5.6%), Xylene(4%\* @)

GAL WT: 8.28 WT PCT SOLIDS: 28.50 VOL PCT SOLIDS: 19.10  
SOLVENT DENSITY: 7.32 VOC LE: 5.9 VOC AP: 5.9  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12588™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide(4.3%), Xylene(4%\* @)

GAL WT: 8.35 WT PCT SOLIDS: 29.05 VOL PCT SOLIDS: 19.10  
SOLVENT DENSITY: 7.32 VOC LE: 5.9 VOC AP: 5.9  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12596™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Iron oxide-A, Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(1.7%), Xylene(4%\* @)

GAL WT: 8.35 WT PCT SOLIDS: 29.05 VOL PCT SOLIDS: 19.09  
SOLVENT DENSITY: 7.32 VOC LE: 5.9 VOC AP: 5.9  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12626™** 2-butoxyethyl acetate(5%@), Butyl acetate, Carbon black(2.3%), Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.0%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

GAL WT: 7.77 WT PCT SOLIDS: 22.07 VOL PCT SOLIDS: 17.03  
SOLVENT DENSITY: 7.29 VOC LE: 6.1 VOC AP: 6.0  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12634™** Aluminum(3%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(0.9%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butoxypropanol, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)

GAL WT: 7.83 WT PCT SOLIDS: 22.79 VOL PCT SOLIDS: 17.59  
SOLVENT DENSITY: 7.24 VOC LE: 6.0 VOC AP: 6.0  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12650™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Chromium(iii) oxide (2:3)(1%\* @), Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(1.4%), Titanium dioxide, anatase(4.1%), Xylene(4%\* @)

GAL WT: 8.35 WT PCT SOLIDS: 29.28 VOL PCT SOLIDS: 19.29  
SOLVENT DENSITY: 7.32 VOC LE: 5.9 VOC AP: 5.9  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12669™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(4.6%), Xylene(4%\* @)

GAL WT: 8.37 WT PCT SOLIDS: 29.28 VOL PCT SOLIDS: 19.15  
SOLVENT DENSITY: 7.32 VOC LE: 5.9 VOC AP: 5.9  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12677™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(6.6%), Xylene(4%\* @)

GAL WT: 8.36 WT PCT SOLIDS: 29.28 VOL PCT SOLIDS: 19.22  
SOLVENT DENSITY: 7.32 VOC LE: 5.9 VOC AP: 5.9  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12707™** 2-butoxyethyl acetate(4%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(0.9%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(6.3%), Xylene(4%\* @)

GAL WT: 8.32 WT PCT SOLIDS: 28.37 VOL PCT SOLIDS: 18.47  
SOLVENT DENSITY: 7.31 VOC LE: 6.0 VOC AP: 5.9  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12758™** Butyl acetate, Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(0.9%\* @), Formaldehyde(0.1% #\* @), Graphite, synthetic, Isobutyl alcohol, Melamine resin, N-butyl alcohol(10%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

GAL WT: 7.90 WT PCT SOLIDS: 23.84 VOL PCT SOLIDS: 17.28  
SOLVENT DENSITY: 7.27 VOC LE: 6.0 VOC AP: 6.0  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

**12871™** 2-butoxyethyl acetate(5%@), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mica, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide(3.3%), Xylene(4%\* @)

GAL WT: 8.22 WT PCT SOLIDS: 27.96 VOL PCT SOLIDS: 18.94  
SOLVENT DENSITY: 7.31 VOC LE: 5.9 VOC AP: 5.9  
FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:  
IC

TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO



**12880™** 2-butoxyethyl acetate(3%@), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(1.1%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Pigment red 202, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.81 WT PCT SOLIDS: 23.70 VOL PCT SOLIDS: 17.73**  
**SOLVENT DENSITY: 7.26 VOC LE: 6.0 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14017™** 2-butoxyethyl acetate(5%@), Butyl acetate, Carbon black(3.0%), Cellulose acetate butyrate, Chrome complex black dye(0%\*), Esters high boiling point, Ethylbenzene(0.7%\* @), Methyl ethyl ketone, N-butyl alcohol(10%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(3%\* @)

**GAL WT: 7.69 WT PCT SOLIDS: 18.71 VOL PCT SOLIDS: 14.29**  
**SOLVENT DENSITY: 7.29 VOC LE: 6.3 VOC AP: 6.2**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**14343™** 2-butoxyethyl acetate(3%@), Bismuth vanadium oxide(22%\*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(1.2%\* @), Mixed terpene hydrocarbons, N-butyl alcohol(6%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(5%\* @)

**GAL WT: 9.47 WT PCT SOLIDS: 41.40 VOL PCT SOLIDS: 23.30**  
**SOLVENT DENSITY: 7.24 VOC LE: 5.5 VOC AP: 5.5**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**14700™** Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethoxypropyl acetate, Ethylbenzene(1.2%\* @), Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(5%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Urea-formaldehyde condensation polymer, Water, Xylene(5%\* @)

**GAL WT: 8.06 WT PCT SOLIDS: 27.92 VOL PCT SOLIDS: 21.06**  
**SOLVENT DENSITY: 7.35 VOC LE: 5.8 VOC AP: 5.7**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**15110™** 2-butoxyethyl acetate(5%@), Aluminum(1%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(0.9%\* @), Isobutyl alcohol, Magnesium fluoride, Melamine resin, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 8.02 WT PCT SOLIDS: 24.51 VOL PCT SOLIDS: 17.03**  
**SOLVENT DENSITY: 7.36 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**15129™** 2-butoxyethyl acetate(1%@), Aluminum(2%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(0.9%\* @), Hydrotreated heavy naphtha (petroleum), Iron oxide-A, Isobutyl alcohol, Melamine resin, N-butoxypropanol, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)

**GAL WT: 7.97 WT PCT SOLIDS: 25.13 VOL PCT SOLIDS: 17.56**  
**SOLVENT DENSITY: 7.26 VOC LE: 6.0 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**15137™** 2-butoxyethyl acetate(5%@), Aluminum(1%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Magnesium fluoride, Melamine

resin, N-butoxypropanol, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)

**GAL WT: 8.01 WT PCT SOLIDS: 24.64 VOL PCT SOLIDS: 17.36**  
**SOLVENT DENSITY: 7.38 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**15145™** Aluminum(2%\*), Aromatic hydrocarbon, Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, Mixed terpene hydrocarbons, N-butoxypropanol, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Phthalocyanine blue pigment, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)

**GAL WT: 7.70 WT PCT SOLIDS: 24.27 VOL PCT SOLIDS: 19.62**  
**SOLVENT DENSITY: 7.27 VOC LE: 5.8 VOC AP: 5.8**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**15919™** 2-butoxyethyl acetate(5%@), Aluminum oxide(6%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(1.8%), Xylene(4%\* @)

**GAL WT: 8.25 WT PCT SOLIDS: 27.96 VOL PCT SOLIDS: 18.56**  
**SOLVENT DENSITY: 7.30 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**15927™** 2-butoxyethyl acetate(5%@), Aluminum oxide(4%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Iron oxide-A, Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 8.26 WT PCT SOLIDS: 27.96 VOL PCT SOLIDS: 18.43**  
**SOLVENT DENSITY: 7.30 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16001™** 2-butoxyethyl acetate(4%@), Aluminum(2%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(1.0%\* @), Hydrotreated heavy naphtha (petroleum), Iron oxide-A, Melamine resin, Mixed terpene hydrocarbons, N-butoxypropanol, N-butyl alcohol(7%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Titanium dioxide (rutile)(0.3%), Xylene(4%\* @)

**GAL WT: 8.01 WT PCT SOLIDS: 25.11 VOL PCT SOLIDS: 17.53**  
**SOLVENT DENSITY: 7.29 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16036™** 2-butoxyethyl acetate(5%@), Aluminum oxide(6%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(2.4%), Xylene(4%\* @)

**GAL WT: 8.25 WT PCT SOLIDS: 27.96 VOL PCT SOLIDS: 18.56**  
**SOLVENT DENSITY: 7.30 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16044™** 2-butoxyethyl acetate(5%@), Aluminum oxide(8%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine



resin, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 8.26 WT PCT SOLIDS: 27.96 VOL PCT SOLIDS: 18.47**  
**SOLVENT DENSITY: 7.30 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16095™** 2-butoxyethyl acetate(5% @), Butyl acetate, Carbon black(0.8%), Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(0.9%\* @), Iron oxide-A, Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 8.07 WT PCT SOLIDS: 24.99 VOL PCT SOLIDS: 16.95**  
**SOLVENT DENSITY: 7.30 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16109™** 2-butoxyethyl acetate(3% @), Anthraquinone pigment, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(1.1%\* @), Mixed terpene hydrocarbons, N-butyl alcohol(9%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.77 WT PCT SOLIDS: 23.49 VOL PCT SOLIDS: 18.05**  
**SOLVENT DENSITY: 7.26 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: YES**

**16142™** 2-butoxyethyl acetate(4% @), Aluminum oxide(5%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(3.5%), Xylene(4%\* @)

**GAL WT: 8.26 WT PCT SOLIDS: 27.66 VOL PCT SOLIDS: 18.12**  
**SOLVENT DENSITY: 7.30 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16143™** 2-butoxyethyl acetate(5% @), Aluminum oxide(3%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(4.9%), Xylene(4%\* @)

**GAL WT: 8.25 WT PCT SOLIDS: 27.96 VOL PCT SOLIDS: 18.51**  
**SOLVENT DENSITY: 7.30 VOC LE: 5.9 VOC AP: 5.9**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16148™** 2-butoxyethyl acetate(5% @), Butyl acetate, Carbon black(0.3%), Cellulose acetate butyrate, Ethylbenzene(1.0%\* @), Magnesium fluoride, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(7%), Naphtha (petroleum), hydrodesulfurized heavy, Phthalocyanine blue pigment, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.91 WT PCT SOLIDS: 23.72 VOL PCT SOLIDS: 17.16**  
**SOLVENT DENSITY: 7.31 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16151™** 2-butoxyethyl acetate(5% @), Butyl acetate, Carbon black(3.1%), Cellulose acetate butyrate, Chrome complex black dye(0%), Esters high boiling point, Ethylbenzene(0.8%\* @), Methyl ethyl ketone, N-butyl alcohol(2%), Polyacrylic resin, Xylene(3%\* @)

**GAL WT: 7.81 WT PCT SOLIDS: 20.98 VOL PCT SOLIDS: 16.42**  
**SOLVENT DENSITY: 7.39 VOC LE: 6.2 VOC AP: 6.2**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16164™** 2-butoxyethyl acetate(4% @), Butyl acetate, Carbon black(0.3%), Cellulose acetate butyrate, Dipropylene glycol methyl ether, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Magnesium fluoride, Melamine resin, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Titanium dioxide(0.1%), Titanium dioxide (rutile)(0.4%), Xylene(4%\* @)

**GAL WT: 7.93 WT PCT SOLIDS: 23.87 VOL PCT SOLIDS: 17.14**  
**SOLVENT DENSITY: 7.32 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16172™** 2-butoxyethyl acetate(4% @), Butyl acetate, Carbon black(0.6%), Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Magnesium fluoride, Melamine resin, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.96 WT PCT SOLIDS: 24.07 VOL PCT SOLIDS: 17.14**  
**SOLVENT DENSITY: 7.32 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16173™** 2-butoxyethyl acetate(5% @), Butyl acetate, Carbon black(1.1%), Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Magnesium fluoride, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.87 WT PCT SOLIDS: 23.17 VOL PCT SOLIDS: 17.00**  
**SOLVENT DENSITY: 7.31 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16180™** Aluminum(3%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Formaldehyde(0.1% #\* @), Isobutyl alcohol, Melamine resin, N-butoxypropanol, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(4%\* @)

**GAL WT: 7.83 WT PCT SOLIDS: 23.17 VOL PCT SOLIDS: 17.08**  
**SOLVENT DENSITY: 7.26 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**70626™** 2-butoxyethyl acetate(4% @), Butyl acetate, Carbon black(0.7%), Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide (rutile)(0.5%), Xylene(4%\* @)

**GAL WT: 7.90 WT PCT SOLIDS: 23.50 VOL PCT SOLIDS: 17.34**  
**SOLVENT DENSITY: 7.34 VOC LE: 6.0 VOC AP: 6.0**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**81075™** 2-butoxyethyl acetate(5% @), Butyl acetate, Carbon black(1.2%), Cellulose acetate butyrate, Esters high boiling point, Ethylbenzene(1.0%\* @), Isobutyl alcohol, Melamine resin, N-butyl alcohol(8%), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(4%\* @)

**GAL WT: 7.81 WT PCT SOLIDS: 22.26 VOL PCT SOLIDS: 16.72**  
**SOLVENT DENSITY: 7.29 VOC LE: 6.1 VOC AP: 6.1**  
**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**



**88401™** 2-butoxyethyl acetate(4%@), Aluminum(1%\*), Butyl acetate, Cellulose acetate butyrate, Dipropylene glycol methyl ether, Esters high boiling point, Ethylbenzene(0.9%\*@), Magnesium fluoride, Melamine resin, N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Titanium dioxide(0.2%), Titanium dioxide (rutile)(0.4%), Xylene(4%\*@)

**GAL WT: 7.92 WT PCT SOLIDS: 22.56 VOL PCT SOLIDS: 15.90**

**SOLVENT DENSITY: 7.29 VOC LE: 6.1 VOC AP: 6.1**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**88479™** 2-butoxyethyl acetate(4%@), Butyl acetate, Carbon black(0.3%), Cellulose acetate butyrate, Ethylbenzene(1.1%\*@), Magnesium fluoride, Melamine resin, Mixed terpene hydrocarbons, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Phthalocyanine blue pigment, Polyacrylic resin, Titanium dioxide(0.1%), Titanium dioxide (rutile)(0.3%), Xylene(4%\*@)

**GAL WT: 8.03 WT PCT SOLIDS: 25.67 VOL PCT SOLIDS: 18.02**

**SOLVENT DENSITY: 7.32 VOC LE: 6.0 VOC AP: 6.0**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.







**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standox  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **14 - Standohyd® Basecoat (Includes Factory Packs)**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: Jet Black/BL (60671), W-378 (55690), W-009 (55670), W-372 (55643/55708), W-312 (55627/55740), W-386 (55619), W-358 (55600), W-357 (55597), W-324 (55457), W-321 (55450), W-325 (55440), W-305 (55414), W-303 (55406), W-304 (55400), W-302 (55384), W-301 (55376), W-362 (55362), W-329 (55360), W-394 (55350/55724), W-395 (55341/55732), W-390 (55333/55716), W-398 (55325), W-393 (55317), W-366 (55295), W-310 (55287), W-369 (55276), W-382 (55249), W-373 (55244), W-364 (55240), W-383 (55228), W-359 (55210), W-389 (55180), W-388 (55171), W-376 (55163), W-361 (55112), W-356 (55110), W-365 (55050), W-367 (55045), W-374 (55024), W-363 (55015), W-370 (55007/55694), W-326 (55210), W-327 (55202), W-399 (552199), W-379 (552180), W-377 (552172), W-385 (552156), W-323 (552148), W-313 (552130), W-311 (552121/50230), W-355 (552113), W-384 (552105), W-380 (552091), W-368 (552083), W-351 (552075), W-346 (552071), W-345 (552070), W-344 (552069), W-343 (552068), W-341 (552067), W-339 (552059), W-336 (552040), W-331 (552032), W-328 (552024), W-306 (552016)

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Acrylic polymer	NotAvail	None	A None O None
Acrylic polymer-A	146753-99-3	None	A None O None
Aluminum	7429-90-5	None	A 1.0 mg/m3 Respirable Dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust D 0.5 mg/m3 8 & 12 hour TWA
Aluminum oxide	1344-28-1	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
Anthraquinone pigment	81-77-6	None	A 10.0 mg/m3 O None

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Bismuth vanadium oxide	14059-33-7	None	A None O None
C.i. pigment red 254	84632-65-5	None	A None O None
C.i. pigment violet 23	6358-30-1	None	A None O None
Carbon black	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA
Carbon black, hydroxy & 4-sulfophenyl-modified, sod	481066-70-0	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA
Chromium(iii) oxide (2:3)	1308-38-9	None	A 0.5 mg/m3 Cr O 0.5 mg/m3 Cr
Diazo pigment	5979-28-2	None	A 10.0 mg/m3 O None
Ethylene glycol monobutyl ether	111-76-2	0.6	A 20.0 ppm O 50.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA
Graphite, synthetic	7782-42-5	None	A 2.0 mg/m3 Respirable Dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
Heavy naphtha	90622-58-5	1.0	A None O None
Hydrotreated heavy naphtha (petroleum)	64742-48-9	0.7@68.0°F	A 100.0 ppm O 500.0 ppm D 100.0 ppm
Iron hydroxide	20344-49-4	None	A None O None
Iron oxide	1309-37-1	None	A 5.0 mg/m3 Respirable Dust O 10.0 mg/m3 D 3.0 mg/m3
Isopropyl alcohol	67-63-0	48.0	A 400.0 ppm 15 min STEL A 200.0 ppm O 400.0 ppm D 200.0 ppm 8 & 12 hour TWA
Medium mineral spirits			



**SAFETY DATA SHEET**  
**Standohyd® Basecoat (Includes Factory Packs)**



INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS	INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
	64742-88-7	0.3@68.0°F	D 50.0 ppm 8 & 12 hour TWA A None O None				inhalable dust O 15.0 mg/m3 TWA Total Dust O 5.0 mg/m3 TWA Respirable Dust
Melamine resin	108-78-1	67.0@315.0°C	A None O None				
Methyl pyrrolidone	872-50-4	0.3	D 5.0 ppm 8 & 12 hour TWA Skin A None O None	Phthalocyanine green pigment	68512-13-0	None	A None O None
				Pigment red 202	3089-17-6	None	A 3.0 mg/m3 Respirable Dust A 10.0 mg/m3 inhalable dust PNOR O 5.0 mg/m3 Respirable Dust PNOR O 15.0 mg/m3
Mica	12001-26-2	None	A 3.0 mg/m3 Respirable Dust O 20.0 mppcf O 3.0 mg/m3 Respirable Dust				
Monoazo pigment	12236-62-3	None	A 10.0 mg/m3 inhalable dust particulate O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust	Polyacrylic resin thickener	NotAvail	None	A None O None
				Polycyclic pigments: red	4051-63-2	None	A None O None
N-butyl alcohol	71-36-3	5.6@68.0°F	A 20.0 ppm O 100.0 ppm D 50.0 ppm 15 min TWA D 25.0 ppm	Polyurethane	NotAvail	33.0	A None O None
				Polyurethane resin	NotAvail	None	A None O None
Nickel azo complex (py 150)	68511-62-6	None	A None O None	Quinacridone magenta	980-26-7	None	A None O None
Perylene pigment	5521-31-3	None	A 10.0 mg/m3 O None	Quinacridone pigment	1047-16-1	None	A 10.0 mg/m3 inhalable dust A 3.0 mg/m3 O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust
Phthalocyanine blue pigment	147-14-8	None	A None O None				
Phthalocyanine blue pigment	147-14-8	None	A 10.0 mg/m3 inhalable dust PNOC A 3.0 mg/m3 respirable particulate PNOC O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 TWA Respirable Dust PNOR	Tetrachloroisosolinone yellow pigment	5590-18-1	None	A 250.0 ppm O None
				Titanium dioxide	13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
Phthalocyanine green	1328-53-6	None	A 3.0 mg/m3 TWA Respirable Dust A 10.0 mg/m3 TWA	Titanium dioxide (rutile)	1317-80-2	None	A 10.0 mg/m3 TWA Total Dust O 10.0 mg/m3 Total Dust



INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Titanium dioxide, anatase	1317-70-0	None	O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
Urea-formaldehyde condensation polymer	9011-05-6	None	A None O None
Water	7732-18-5	23.6	A None O None

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

### SECTION 3. Hazards identification

#### Potential Health Effects

##### Inhalation

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

##### Ingestion

May result in gastrointestinal distress.

##### Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

#### Other Potential Health Effects in addition to those listed above:

##### Acrylic polymer

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin.

##### Carbon black

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease.

WARNING: This chemical is known to the State of California to cause cancer.

##### Ethylene glycol monobutyl ether

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, central nervous system, eyes, gastrointestinal system, kidneys, liver, respiratory system, skin. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the

blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. If absorbed through the skin, may be: harmful.

##### Graphite, synthetic

Breathing of fume or dust may aggravate asthma and cause fibrotic pulmonary disease.

##### Hydrotreated heavy naphtha (petroleum)

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

##### Isopropyl alcohol

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

##### Medium mineral spirits

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. This substance may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, lungs, reproductive system, skin. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

##### Melamine resin

This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. May induce pulmonary sensitization or significant irritation of the respiratory airways. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. IARC has concluded epidemiology studies found evidence of formaldehyde related nasopharyngeal cancer in humans and have classified formaldehyde as a confirmed human carcinogen. DuPont toxicologists have reviewed these studies and classified formaldehyde as a possible human carcinogen.

##### Methyl pyrrolidone

The following medical conditions may be aggravated by exposure: skin disorders. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver.  
WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

##### Mica

Repeated or prolonged inhalation may cause any of the following: lung irritation. Long-term respiratory exposure exceeding TLV may damage the lungs, leading to bronchitis and impairment of lung capacity.

##### N-butyl alcohol

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

##### Nickel azo complex (py 150)

WARNING: This chemical is known to the State of California to cause cancer.

##### Titanium dioxide

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung

cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

#### Titanium dioxide (rutile)

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

#### Titanium dioxide, anatase

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

#### Urea-formaldehyde condensation polymer

This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. May induce pulmonary sensitization or significant irritation of the respiratory airways. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. IARC has concluded epidemiology studies found evidence of formaldehyde related nasopharyngeal cancer in humans and have classified formaldehyde as a confirmed human carcinogen. DuPont toxicologists have reviewed these studies and classified formaldehyde as a possible human carcinogen.

### SECTION 4. First aid measures

#### First Aid Procedures:

##### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

##### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

##### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

### SECTION 5. Fire-fighting measures

#### Hazardous combustion products

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

#### Fire and Explosion Hazards

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

#### Extinguishing Media

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

#### Fire Fighting Procedures

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

#### Special Protective Equipment and Fire Fighting Procedures

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

#### Additional advice

Cool closed containers exposed to fire with water spray.

### SECTION 6. Accidental release measures

#### Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO<sub>2</sub> to vent. After 48 hours, material may be sealed and disposed of properly.

#### Ecological information

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

### SECTION 7. Handling and storage

**Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection****Engineering controls and work practices:****Ventilation**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection**

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

**Protective equipment**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	100 – 101 °C
Approx. Freezing Range ( °C)	0 °C
Gallon Weight (lbs/gal)	8.41 - 9.92
Specific Gravity	1.01 - 1.19
Percent Volatile By Volume	75.86 - 87.70
Percent Volatile By Weight	63.26 - 85.89
Percent Solids By Volume	12.31 - 24.14
Percent Solids By Weight	14.11 - 36.74

**SECTION 10. Stability and reactivity****Stability:**

Stable

**Incompatibility (materials to avoid):**

None reasonably foreseeable

**Hazardous decomposition products:**

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**52016™** Aluminum(3%), Ethylene glycol monobutyl ether(5%\*), Hydrotreated heavy naphtha (petroleum), Methyl pyrrolidone(2%\*), N-butyl alcohol(4%\*), Polyurethane resin, Water  
**GAL WT: 8.49 WT PCT SOLIDS: 19.27 VOL PCT SOLIDS: 15.78**  
**SOLVENT DENSITY: 8.14 VOC LE: 3.5 VOC AP: 1.1**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52024™** Ethylene glycol monobutyl ether(4%\*), Iron oxide, Methyl pyrrolidone(2%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(2.4%), Water  
**GAL WT: 9.23 WT PCT SOLIDS: 28.04 VOL PCT SOLIDS: 18.78**  
**SOLVENT DENSITY: 8.11 VOC LE: 3.1 VOC AP: 1.0**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52032™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(2%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(7.9%), Water  
**GAL WT: 9.13 WT PCT SOLIDS: 27.71 VOL PCT SOLIDS: 19.32**  
**SOLVENT DENSITY: 8.24 VOC LE: 2.9 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52040™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(1%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide(5.0%), Water  
**GAL WT: 9.12 WT PCT SOLIDS: 26.10 VOL PCT SOLIDS: 17.80**  
**SOLVENT DENSITY: 8.22 VOC LE: 2.9 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52059™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(2%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(7.5%), Water  
**GAL WT: 9.14 WT PCT SOLIDS: 27.59 VOL PCT SOLIDS: 19.12**  
**SOLVENT DENSITY: 8.19 VOC LE: 3.0 VOC AP: 1.0**  
**FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52067™** Ethylene glycol monobutyl ether(4%\*), Iron oxide, Methyl pyrrolidone(2%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(1.7%), Water

**GAL WT: 9.10 WT PCT SOLIDS: 27.39 VOL PCT SOLIDS: 19.35**  
**SOLVENT DENSITY: 8.14 VOC LE: 2.9 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52068™** Aluminum oxide(5%), Ethylene glycol monobutyl ether(3%), Methyl pyrrolidone(1%), N-butyl alcohol(4%), Polyurethane resin, Titanium dioxide (rutile)(2.1%), Water  
**GAL WT: 8.79 WT PCT SOLIDS: 18.90 VOL PCT SOLIDS: 13.19**  
**SOLVENT DENSITY: 8.21 VOC LE: 3.3 VOC AP: 0.8**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52069™** Aluminum oxide(8%), Ethylene glycol monobutyl ether(3%), Methyl pyrrolidone(1%), N-butyl alcohol(4%), Polyurethane resin, Water  
**GAL WT: 8.87 WT PCT SOLIDS: 19.90 VOL PCT SOLIDS: 13.48**  
**SOLVENT DENSITY: 8.22 VOC LE: 3.3 VOC AP: 0.8**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52070™** Aluminum oxide(4%), Ethylene glycol monobutyl ether(3%), Methyl pyrrolidone(1%), N-butyl alcohol(4%), Polyurethane resin, Titanium dioxide (rutile)(2.9%), Water  
**GAL WT: 8.79 WT PCT SOLIDS: 18.98 VOL PCT SOLIDS: 13.31**  
**SOLVENT DENSITY: 8.22 VOC LE: 3.3 VOC AP: 0.8**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52071™** Aluminum oxide(2%), Ethylene glycol monobutyl ether(3%), Methyl pyrrolidone(1%), N-butyl alcohol(4%), Polyurethane resin, Titanium dioxide (rutile)(4.1%), Water  
**GAL WT: 8.78 WT PCT SOLIDS: 18.04 VOL PCT SOLIDS: 12.51**  
**SOLVENT DENSITY: 8.23 VOC LE: 3.3 VOC AP: 0.8**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52075™** Ethylene glycol monobutyl ether(4%), Graphite, synthetic, Methyl pyrrolidone(1%), N-butyl alcohol(4%), Polyurethane resin, Water  
**GAL WT: 8.69 WT PCT SOLIDS: 21.35 VOL PCT SOLIDS: 16.67**  
**SOLVENT DENSITY: 8.16 VOC LE: 3.1 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52083™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(3%), Polyurethane resin, Water  
**GAL WT: 8.47 WT PCT SOLIDS: 23.55 VOL PCT SOLIDS: 21.25**  
**SOLVENT DENSITY: 8.23 VOC LE: 2.6 VOC AP: 0.9**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52091™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polyurethane resin, Tetrachloroisosolinone yellow pigment, Water  
**GAL WT: 8.68 WT PCT SOLIDS: 25.14 VOL PCT SOLIDS: 20.94**  
**SOLVENT DENSITY: 8.19 VOC LE: 2.5 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52105™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(3%), Polyurethane resin, Water  
**GAL WT: 8.47 WT PCT SOLIDS: 23.68 VOL PCT SOLIDS: 21.30**  
**SOLVENT DENSITY: 8.22 VOC LE: 2.7 VOC AP: 0.9**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52113™** C.i. pigment violet 23, Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(1%), N-butyl alcohol(2%), Polyurethane resin, Water  
**GAL WT: 8.62 WT PCT SOLIDS: 26.40 VOL PCT SOLIDS: 22.68**  
**SOLVENT DENSITY: 8.18 VOC LE: 2.4 VOC AP: 0.8**

**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52121/50230™** Aluminum(4%), Ethylene glycol monobutyl ether(5%), N-butyl alcohol(4%), Polyurethane resin, Water  
**GAL WT: 8.48 WT PCT SOLIDS: 18.57 VOL PCT SOLIDS: 15.16**  
**SOLVENT DENSITY: 8.12 VOC LE: 3.4 VOC AP: 1.0**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52130™** Aluminum(2%), Ethylene glycol monobutyl ether(4%), Isopropyl alcohol, N-butyl alcohol(3%), Polyurethane resin, Water  
**GAL WT: 8.45 WT PCT SOLIDS: 16.20 VOL PCT SOLIDS: 13.90**  
**SOLVENT DENSITY: 8.26 VOC LE: 3.3 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52148™** Chromium(iii) oxide (2:3)(2%\*), Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), Mica, N-butyl alcohol(4%), Polyurethane resin, Titanium dioxide (rutile)(1.8%), Titanium dioxide, anatase(5.5%), Water  
**GAL WT: 9.19 WT PCT SOLIDS: 28.05 VOL PCT SOLIDS: 19.14**  
**SOLVENT DENSITY: 8.13 VOC LE: 3.0 VOC AP: 1.0**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52156™** Ethylene glycol monobutyl ether(4%), Melamine resin, Methyl pyrrolidone(2%), N-butyl alcohol(2%), Nickel azo complex (py 150)(1.8%\*), Polyurethane resin, Water  
**GAL WT: 8.52 WT PCT SOLIDS: 22.71 VOL PCT SOLIDS: 19.80**  
**SOLVENT DENSITY: 8.18 VOC LE: 2.7 VOC AP: 0.8**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52172™** Diazo pigment, Ethylene glycol monobutyl ether(5%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polyurethane resin, Water  
**GAL WT: 8.61 WT PCT SOLIDS: 26.66 VOL PCT SOLIDS: 22.92**  
**SOLVENT DENSITY: 8.17 VOC LE: 2.5 VOC AP: 0.9**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52180™** Ethylene glycol monobutyl ether(5%), Methyl pyrrolidone(2%), Monoazo pigment, N-butyl alcohol(2%), Polyurethane resin, Water  
**GAL WT: 8.65 WT PCT SOLIDS: 26.76 VOL PCT SOLIDS: 22.73**  
**SOLVENT DENSITY: 8.17 VOC LE: 2.6 VOC AP: 0.9**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52199™** Ethylene glycol monobutyl ether(2%), N-butyl alcohol(3%), Polyurethane resin, Water  
**GAL WT: 8.46 WT PCT SOLIDS: 24.75 VOL PCT SOLIDS: 22.67**  
**SOLVENT DENSITY: 8.20 VOC LE: 2.0 VOC AP: 0.6**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52202™** Aluminum oxide(3%), Ethylene glycol monobutyl ether(3%), Iron oxide, N-butyl alcohol(3%), Polyurethane resin, Water  
**GAL WT: 8.81 WT PCT SOLIDS: 18.19 VOL PCT SOLIDS: 12.39**  
**SOLVENT DENSITY: 8.23 VOC LE: 3.2 VOC AP: 0.7**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**52210™** Aluminum oxide(6%), Ethylene glycol monobutyl ether(4%), N-butyl alcohol(4%), Polyurethane resin, Titanium dioxide (rutile)(1.7%), Water  
**GAL WT: 8.84 WT PCT SOLIDS: 19.31 VOL PCT SOLIDS: 13.17**  
**SOLVENT DENSITY: 8.22 VOC LE: 3.3 VOC AP: 0.8**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55007/55694™** Ethylene glycol monobutyl ether(5%), Methyl pyrrolidone(1%), N-butyl alcohol(2%), Polyurethane resin, Titanium dioxide(17.2%), Water  
**GAL WT: 9.74 WT PCT SOLIDS: 36.22 VOL PCT SOLIDS: 24.14**  
**SOLVENT DENSITY: 8.16 VOC LE: 2.6 VOC AP: 0.9**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55015™** Carbon black(3.5%), Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polyurethane resin, Water  
**GAL WT: 8.53 WT PCT SOLIDS: 21.59 VOL PCT SOLIDS: 18.55**  
**SOLVENT DENSITY: 8.19 VOC LE: 2.8 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55024™** Ethylene glycol monobutyl ether(3%), Iron hydroxide, Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polyurethane resin, Water  
**GAL WT: 8.75 WT PCT SOLIDS: 25.19 VOL PCT SOLIDS: 20.28**  
**SOLVENT DENSITY: 8.18 VOC LE: 2.6 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55045™** Ethylene glycol monobutyl ether(3%), Iron oxide, Methyl pyrrolidone(2%), N-butyl alcohol(3%), Polyurethane resin, Water  
**GAL WT: 8.84 WT PCT SOLIDS: 26.47 VOL PCT SOLIDS: 20.77**  
**SOLVENT DENSITY: 8.18 VOC LE: 2.6 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55050™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polycyclic pigments: red, Polyurethane resin, Water  
**GAL WT: 8.59 WT PCT SOLIDS: 23.92 VOL PCT SOLIDS: 20.52**  
**SOLVENT DENSITY: 8.23 VOC LE: 2.5 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55110™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Pigment red 202, Polyurethane resin, Water  
**GAL WT: 8.60 WT PCT SOLIDS: 24.12 VOL PCT SOLIDS: 20.51**  
**SOLVENT DENSITY: 8.21 VOC LE: 2.6 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55112™** C.i. pigment red 254, Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polyurethane resin, Water  
**GAL WT: 8.64 WT PCT SOLIDS: 26.05 VOL PCT SOLIDS: 22.19**  
**SOLVENT DENSITY: 8.21 VOC LE: 2.4 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55163™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polyurethane resin, Quinacridone magenta, Water  
**GAL WT: 8.53 WT PCT SOLIDS: 23.19 VOL PCT SOLIDS: 20.30**  
**SOLVENT DENSITY: 8.22 VOC LE: 2.5 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55171™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Phthalocyanine blue pigment, Polyurethane resin, Water  
**GAL WT: 8.57 WT PCT SOLIDS: 25.49 VOL PCT SOLIDS: 22.12**  
**SOLVENT DENSITY: 8.21 VOC LE: 2.6 VOC AP: 0.9**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55180™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Phthalocyanine green, Polyurethane resin, Water  
**GAL WT: 8.65 WT PCT SOLIDS: 23.86 VOL PCT SOLIDS: 19.84**  
**SOLVENT DENSITY: 8.22 VOC LE: 2.6 VOC AP: 0.8**

**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55210™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(1%), N-butyl alcohol(2%), Phthalocyanine blue pigment, Polyurethane resin, Water  
**GAL WT: 8.62 WT PCT SOLIDS: 24.92 VOL PCT SOLIDS: 21.22**  
**SOLVENT DENSITY: 8.22 VOC LE: 2.4 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55228™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Perylene pigment, Polyurethane resin, Water  
**GAL WT: 8.54 WT PCT SOLIDS: 21.83 VOL PCT SOLIDS: 18.77**  
**SOLVENT DENSITY: 8.22 VOC LE: 2.6 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55240™** Carbon black(0.3%), Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(3%), Polyurethane resin, Water  
**GAL WT: 8.44 WT PCT SOLIDS: 23.15 VOL PCT SOLIDS: 21.03**  
**SOLVENT DENSITY: 8.18 VOC LE: 2.8 VOC AP: 0.9**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55244™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Phthalocyanine green pigment, Polyurethane resin, Water  
**GAL WT: 8.69 WT PCT SOLIDS: 24.03 VOL PCT SOLIDS: 19.62**  
**SOLVENT DENSITY: 8.18 VOC LE: 2.7 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55249™** Ethylene glycol monobutyl ether(4%), Iron oxide, Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polyurethane resin, Water  
**GAL WT: 8.77 WT PCT SOLIDS: 26.35 VOL PCT SOLIDS: 21.16**  
**SOLVENT DENSITY: 8.17 VOC LE: 2.6 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55276™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(3%), Polyurethane resin, Water  
**GAL WT: 8.45 WT PCT SOLIDS: 23.66 VOL PCT SOLIDS: 21.47**  
**SOLVENT DENSITY: 8.22 VOC LE: 2.7 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55287™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(1%), N-butyl alcohol(2%), Polyurethane resin, Titanium dioxide(4.5%), Water  
**GAL WT: 8.73 WT PCT SOLIDS: 19.86 VOL PCT SOLIDS: 15.03**  
**SOLVENT DENSITY: 8.24 VOC LE: 2.8 VOC AP: 0.7**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55295™** Ethylene glycol monobutyl ether(4%), Methyl pyrrolidone(2%), N-butyl alcohol(2%), Polyurethane resin, Quinacridone pigment, Water  
**GAL WT: 8.57 WT PCT SOLIDS: 24.84 VOL PCT SOLIDS: 21.53**  
**SOLVENT DENSITY: 8.18 VOC LE: 2.5 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55317™** Aluminum(3%), Ethylene glycol monobutyl ether(5%), Methyl pyrrolidone(1%), N-butyl alcohol(4%), Polyurethane resin, Water  
**GAL WT: 8.49 WT PCT SOLIDS: 19.78 VOL PCT SOLIDS: 16.66**  
**SOLVENT DENSITY: 8.17 VOC LE: 3.2 VOC AP: 1.0**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**



**55325™** Aluminum(3%\*), Ethylene glycol monobutyl ether(5%\*), Methyl pyrrolidone(1%\*), N-butyl alcohol(4%\*), Polyurethane resin, Water  
**GAL WT: 8.49 WT PCT SOLIDS: 20.52 VOL PCT SOLIDS: 17.36**  
**SOLVENT DENSITY: 8.16 VOC LE: 3.3 VOC AP: 1.0**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55333/55716™** Aluminum(2%\*), Ethylene glycol monobutyl ether(5%\*), Methyl pyrrolidone(1%\*), N-butyl alcohol(4%\*), Polyurethane resin, Water  
**GAL WT: 8.47 WT PCT SOLIDS: 20.69 VOL PCT SOLIDS: 17.76**  
**SOLVENT DENSITY: 8.17 VOC LE: 3.1 VOC AP: 1.0**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55341/55732™** Aluminum(3%\*), Ethylene glycol monobutyl ether(5%\*), Methyl pyrrolidone(2%\*), N-butyl alcohol(4%\*), Polyurethane resin, Water  
**GAL WT: 8.49 WT PCT SOLIDS: 19.03 VOL PCT SOLIDS: 15.81**  
**SOLVENT DENSITY: 8.16 VOC LE: 3.5 VOC AP: 1.0**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55350/55724™** Aluminum(3%\*), Ethylene glycol monobutyl ether(5%\*), Methyl pyrrolidone(1%\*), N-butyl alcohol(4%\*), Polyurethane resin, Water  
**GAL WT: 8.51 WT PCT SOLIDS: 19.31 VOL PCT SOLIDS: 16.14**  
**SOLVENT DENSITY: 8.20 VOC LE: 3.3 VOC AP: 1.0**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55360™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(2%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide(4.9%), Water  
**GAL WT: 9.09 WT PCT SOLIDS: 27.36 VOL PCT SOLIDS: 19.43**  
**SOLVENT DENSITY: 8.20 VOC LE: 2.8 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55362™** Carbon black, hydroxy & 4-sulfophenyl-modified, sod, Ethylene glycol monobutyl ether(4%\*), Heavy naphtha, N-butyl alcohol(1%\*), Polyacrylic resin thickener, Polyurethane resin, Water  
**GAL WT: 8.41 WT PCT SOLIDS: 14.11 VOL PCT SOLIDS: 12.31**  
**SOLVENT DENSITY: 8.21 VOC LE: 3.2 VOC AP: 0.7**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55376™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(1%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(2.9%), Water  
**GAL WT: 8.96 WT PCT SOLIDS: 26.14 VOL PCT SOLIDS: 19.22**  
**SOLVENT DENSITY: 8.19 VOC LE: 2.8 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55384™** Ethylene glycol monobutyl ether(3%\*), Methyl pyrrolidone(1%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(6.8%), Water  
**GAL WT: 9.06 WT PCT SOLIDS: 26.06 VOL PCT SOLIDS: 18.33**  
**SOLVENT DENSITY: 8.25 VOC LE: 2.8 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55400™** Ethylene glycol monobutyl ether(4%\*), Iron oxide, Methyl pyrrolidone(2%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(1.7%), Water  
**GAL WT: 9.30 WT PCT SOLIDS: 28.96 VOL PCT SOLIDS: 19.30**  
**SOLVENT DENSITY: 8.12 VOC LE: 3.0 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55406™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(2%\*),

Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(5.2%), Water  
**GAL WT: 9.04 WT PCT SOLIDS: 26.54 VOL PCT SOLIDS: 18.98**  
**SOLVENT DENSITY: 8.24 VOC LE: 2.8 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55414™** Ethylene glycol monobutyl ether(4%\*), Iron oxide, Methyl pyrrolidone(2%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(2.2%), Water  
**GAL WT: 9.22 WT PCT SOLIDS: 27.62 VOL PCT SOLIDS: 18.41**  
**SOLVENT DENSITY: 8.12 VOC LE: 3.1 VOC AP: 1.0**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55440™** Ethylene glycol monobutyl ether(3%\*), Methyl pyrrolidone(1%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(5.6%), Water  
**GAL WT: 9.14 WT PCT SOLIDS: 26.33 VOL PCT SOLIDS: 17.89**  
**SOLVENT DENSITY: 8.20 VOC LE: 2.9 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55450™** Ethylene glycol monobutyl ether(3%\*), Methyl pyrrolidone(1%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(6.8%), Water  
**GAL WT: 9.04 WT PCT SOLIDS: 26.09 VOL PCT SOLIDS: 18.54**  
**SOLVENT DENSITY: 8.27 VOC LE: 2.7 VOC AP: 0.8**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55457™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(1%\*), Mica, N-butyl alcohol(4%\*), Polyurethane resin, Titanium dioxide (rutile)(6.6%), Water  
**GAL WT: 8.99 WT PCT SOLIDS: 26.09 VOL PCT SOLIDS: 18.96**  
**SOLVENT DENSITY: 8.28 VOC LE: 2.8 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55597™** Anthraquinone pigment, Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(2%\*), N-butyl alcohol(2%\*), Polyurethane resin, Water  
**GAL WT: 8.53 WT PCT SOLIDS: 23.55 VOL PCT SOLIDS: 20.57**  
**SOLVENT DENSITY: 8.19 VOC LE: 2.6 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55600™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(2%\*), N-butyl alcohol(2%\*), Phthalocyanine blue pigment, Polyurethane resin, Water  
**GAL WT: 8.59 WT PCT SOLIDS: 25.90 VOL PCT SOLIDS: 22.40**  
**SOLVENT DENSITY: 8.21 VOC LE: 2.5 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55619™** Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(2%\*), N-butyl alcohol(2%\*), Perylene pigment, Polyurethane resin, Water  
**GAL WT: 8.55 WT PCT SOLIDS: 23.05 VOL PCT SOLIDS: 19.96**  
**SOLVENT DENSITY: 8.20 VOC LE: 2.6 VOC AP: 0.8**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55627/55740™** Aluminum(3%\*), Ethylene glycol monobutyl ether(5%\*), N-butyl alcohol(4%\*), Polyurethane resin, Water  
**GAL WT: 8.51 WT PCT SOLIDS: 19.12 VOL PCT SOLIDS: 15.80**  
**SOLVENT DENSITY: 8.18 VOC LE: 3.3 VOC AP: 1.0**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**55643/55708™** Carbon black(1.1%), Ethylene glycol monobutyl





ether(4%\*), Methyl pyrrolidone(2%\*), N-butyl alcohol(3%\*), Polyurethane resin, Water

**GAL WT: 8.45 WT PCT SOLIDS: 21.75 VOL PCT SOLIDS: 19.46**  
**SOLVENT DENSITY: 8.18 VOC LE: 2.8 VOC AP: 0.9**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55670™** Ethylene glycol monobutyl ether(3%\*), Methyl pyrrolidone(2%\*), N-butyl alcohol(2%\*), Polyurethane resin, Urea-formaldehyde condensation polymer, Water

**GAL WT: 8.64 WT PCT SOLIDS: 21.74 VOL PCT SOLIDS: 18.25**  
**SOLVENT DENSITY: 8.24 VOC LE: 2.3 VOC AP: 0.6**  
**FLASH POINT: 141 °F - 200 °F H: 2 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**55690™** Bismuth vanadium oxide(18%\*), Ethylene glycol monobutyl ether(4%\*), Methyl pyrrolidone(1%\*), N-butyl alcohol(1%\*), Polyurethane resin, Water

**GAL WT: 9.92 WT PCT SOLIDS: 36.74 VOL PCT SOLIDS: 23.40**  
**SOLVENT DENSITY: 8.20 VOC LE: 2.5 VOC AP: 0.9**  
**FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 0 OSHA STORAGE: II**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**60671™** Acrylic polymer, Acrylic polymer-A, Carbon black(1.4%), Hydrotreated heavy naphtha (petroleum), Medium mineral spirits, Polyurethane, Water

**GAL WT: 8.45 WT PCT SOLIDS: 20.87 VOL PCT SOLIDS: 18.80**  
**SOLVENT DENSITY: 8.23 VOC LE: 1.3 VOC AP: 0.3**  
**FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.







**SECTION 1. Identification of the substance/preparation and of the company/undertaking**

Manufacturer: Standox  
47802 W. Anchor Ct.  
Plymouth, MI, 48170

Telephone: Product information: (800) 551-9296  
Medical emergency: (800) 441-3637  
Transportation emergency: (800) 424-9300  
(CHEMTREC)

Product: **15 - Standox® Miscellaneous**

DOT Shipping Name: See Index.

Hazardous Materials Information: See Section 10.

Products covered in this document include: Low VOC Etch Activator (16190), EP Hardener (16184), Basecoat Colorless (16150), Standoflex® Low VOC Plastic Cleaner (16010), Standohyd® Sanding Paste (14670), Stabilizer Transparent - Mix 599 (14335)

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
	141-78-6	93.2@25.0°C	A 400.0 ppm O 400.0 ppm
Ethyl alcohol	64-17-5	46.0	A 1000.0 ppm O 1000.0 ppm D 1000.0 ppm 8 & 12 hour TWA
Ethylbenzene	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
Ethylene diamine	107-15-3	68.6	A 10.0 ppm Skin O 10.0 ppm D 1.0 ppm 8 & 12 hour TWA Skin D 1.0 ppm 8 & 12 hour TWA
Glycerine	56-81-5	1.0	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust

**SECTION 2. Composition/information on ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
2-butoxyethyl acetate	112-07-2	0.4	A 130.0 mg/m3 D 10.0 ppm Skin D 20.0 ppm 8 & 12 hour TWA O None
Acetone	67-64-1	247.0@68.0°F	A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour TWA
Alcohol ethoxylate	68131-39-5	<0.1@100.0°F	A None O None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
Cellulose acetate butyrate	9004-36-8	None	A None O None
D-limonene - technical grade	5989-27-5	2.0	A None O None
Epoxy hardener	NotAvail	5.2	A None O None
Esters high boiling point	7397-62-8	None	A None O None
Ethyl acetate			
Heptane	142-82-5	45.0@66.0°F	A 500.0 ppm 15 min STEL A 400.0 ppm O 500.0 ppm
Melamine resin	68002-21-1	11.0	A None O None
Methyl alcohol	67-56-1	127.7@21.2°C	A 250.0 ppm 15 min STEL Skin A 200.0 ppm Skin O 200.0 ppm D 200.0 ppm 8 & 12 hour TWA Skin
N-butyl alcohol	71-36-3	5.6@68.0°F	A 20.0 ppm O 100.0 ppm D 50.0 ppm 15 min STEL D 25.0 ppm 8 & 12 hour TWA
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	5.1	A None O None
Phosphoric acid	7664-38-2	0.0	A 3.0 mg/m3 15 min STEL A 1.0 mg/m3 O 1.0 mg/m3 D 1.0 mg/m3 8 & 12 hour TWA



INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS	
Polyacrylic resin	74508-30-8	None	A None O None	<b>Inhalation:</b> May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.  <b>Ingestion:</b> May result in gastrointestinal distress.  <b>Skin or eye contact:</b> May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.  <b>Other Potential Health Effects in addition to those listed above:</b>  <b>Acetone</b> The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.  <b>Butyl acetate</b> May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.  <b>D-limonene - technical grade</b> Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.  <b>Epoxy hardener</b> Skin contact may cause any of the following: skin sensitization, skin irritation.  <b>Ethyl acetate</b> Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.  <b>Ethyl alcohol</b> The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be: harmful.  <b>Ethylbenzene</b> Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. WARNING: This chemical is known to the State of California to cause cancer.  <b>Ethylene diamine</b> Ingestion may cause any of the following: burns to mouth and stomach, aspiration leading to lung damage.. Repeated or prolonged skin contact may cause any of the following: dermatitis, skin sensitization. Skin contact may cause any of the following: burns. Eye contact may cause any of the following: severe irritation, burns, corneal injury. Inhalation of high vapor concentrations may cause any of the following: lung injury. The following medical conditions may be aggravated by overexposure: asthma, dermatitis, pulmonary conditions. If absorbed through the skin, may be:
Polyaminofunctional silane	35141-30-1	1.3	A None O None	
Polyethylene glycol	25322-68-3	<0.0	A 3.0 mg/m3 particulate Respirable Dust A 10.0 mg/m3 particulate inhalable dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust	
Propanol, 1(or 2)-ethoxy-	1569-02-4	10.0	A None O None	
Quartz-crystalline silica	14808-60-7	None	A 25.0 ug/m3 Respirable Dust O 0.3 mg/m3 Total Dust O 0.1 mg/m3 Respirable Dust D 0.1 mg/m3 Respirable Dust	
Sodium aluminum silicate	68476-25-5	None	A None O None	
Toluene	108-88-3	22.0	A 20.0 ppm  O 300.0 ppm CEIL O 500.0 ppm 10 min TWA O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA Skin	
Triethanolamine	102-71-6	0.0	A 5.0 mg/m3 D 3.0 ppm 8 & 12 hour TWA O None	
Water	7732-18-5	23.6	A None O None	
Xylene	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 150.0 ppm 15 min STEL D 100.0 ppm 8 & 12 hour TWA	

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

### SECTION 3. Hazards identification

#### Potential Health Effects:

harmful. Repeated or prolonged exposure may cause effects on any of the following organs/systems: kidneys, liver, respiratory system.

#### Heptane

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, respiratory system, skin. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

#### Melamine resin

This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. May induce pulmonary sensitization or significant irritation of the respiratory airways. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. IARC has concluded epidemiology studies found evidence of formaldehyde related nasopharyngeal cancer in humans and have classified formaldehyde as a confirmed human carcinogen. DuPont toxicologists have reviewed these studies and classified formaldehyde as a possible human carcinogen.

#### Methyl alcohol

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, kidneys, liver, skin. Excessive human exposure to methanol may lead to: fatigue, headache, anaesthetic, neurologic effects, and visual difficulties including blindness or death. Recurrent overexposure may result in liver and kidney injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Ingestion may cause any of the following: blindness. Eye contact may cause any of the following: conjunctivitis, mild irritation, corneal opacity.

#### N-butyl alcohol

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

#### Phosphoric acid

Ingestion may cause any of the following: burns to mouth and stomach. Inhalation of vapor may cause any of the following: burns to respiratory system. Skin or eye contact may cause any of the following: burns.

#### Quartz-crystalline silica

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury.  
WARNING: This chemical is known to the State of California to cause cancer.

#### Toluene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown.  
WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

#### Triethanolamine

Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. Liquid splashes in the eye may result in chemical burns.

#### Xylene

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

### SECTION 4. First aid measures

#### First Aid Procedures:

##### Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

##### Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

##### Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

### SECTION 5. Fire-fighting measures

#### Hazardous combustion products:

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

#### Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

#### Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

#### Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

#### Special Protective Equipment and Fire Fighting Procedures:

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

#### Additional advice:

Cool closed containers exposed to fire with water spray.

### SECTION 6. Accidental release measures



**Procedures for cleaning up spills or leaks:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

**Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

**SECTION 7. Handling and storage**

**Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 38-93 deg C or 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 38 deg C or 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than - 8 deg C or 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 49 deg C or 120 deg F. If product is waterbased, do not freeze.

**Other precautions:**

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

**SECTION 8. Exposure controls/personal protection**

**Engineering controls and work practices:**

**Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Respiratory protection:**

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

**SECTION 9. Physical and chemical properties**

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range ( °C)	56 – 265 °C
Approx. Freezing Range ( °C)	-114 – 240 °C
Gallon Weight (lbs/gal)	6.81 - 13.43
Specific Gravity	0.82 - 1.61
Percent Volatile By Volume	51.78 - 98.41
Percent Volatile By Weight	32.13 - 96.16
Percent Solids By Volume	1.59 - 48.22
Percent Solids By Weight	3.84 - 67.87

**SECTION 10. Stability and reactivity**

**Stability:**

Stable.

**Incompatibility (materials to avoid):**

None reasonably foreseeable.

**Hazardous decomposition products:**

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

**Hazardous Polymerization:**

Will not occur.

**Sensitivity to Static Discharge:**

For flammable materials (flashpoint less than 38 deg C or 100 deg F) and combustibles (flashpoint between 38- 93 deg C or 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

**Sensitivity to Mechanical Impact:**

None known.

**SECTION 11. Additional Information**

**14335™** 2-butoxyethyl acetate(12%@), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(0.5%\*@), N-butyl alcohol(9%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Xylene(2%\*@)  
**GAL WT: 7.63 WT PCT SOLIDS: 15.76 VOL PCT SOLIDS: 11.87**  
**SOLVENT DENSITY: 7.30 VOC LE: 6.4 VOC AP: 6.4**  
**FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**14670™** Alcohol ethoxylate, D-limonene - technical grade, Glycerine, Quartz-crystalline silica(5.9%), Sodium aluminum silicate, Triethanolamine, Water  
**GAL WT: 11.56 WT PCT SOLIDS: 48.09 VOL PCT SOLIDS: 27.47**  
**SOLVENT DENSITY: 8.27 VOC LE: 1.4 VOC AP: 0.5**  
**FLASH POINT: Above 200 °F H: 2 F: 1 R: 0 OSHA STORAGE: IIIB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16010™** Alcohol ethoxylate, Glycerine, Polyethylene glycol, Quartz-crystalline silica(7.8%), Sodium aluminum silicate, Triethanolamine, Water  
**GAL WT: 13.43 WT PCT SOLIDS: 67.87 VOL PCT SOLIDS: 48.22**  
**SOLVENT DENSITY: 8.34 VOC LE: 0.6 VOC AP: 0.3**  
**FLASH POINT: Above 200 °F H: 2 F: 1 R: 0 OSHA STORAGE: IIIB**  
**TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO**

**16150™** Butyl acetate, Cellulose acetate butyrate, Esters high boiling





point, Ethylbenzene(0.6%\*@), Melamine resin, N-butyl alcohol(8%\*), Naphtha (petroleum), hydrodesulfurized heavy, Polyacrylic resin, Propanol, 1(or 2)-ethoxy-, Xylene(3%\*@)

**GAL WT: 7.27 WT PCT SOLIDS: 8.07 VOL PCT SOLIDS: 5.90**

**SOLVENT DENSITY: 7.13 VOC LE: 6.7 VOC AP: 6.7**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**16184™** Epoxy hardener, Ethylbenzene(8.0%\*@), Ethylene diamine(1.0% #), N-butyl alcohol(36%\*), Polyaminofunctional silane, Xylene(32%\*@)

**GAL WT: 7.32 WT PCT SOLIDS: 23.26 VOL PCT SOLIDS: 19.89**

**SOLVENT DENSITY: 6.97 VOC LE: 5.6 VOC AP: 5.6**

**FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 2 OSHA STORAGE:**

**IC**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: YES**

**16190™** Acetone, Ethyl acetate, Ethyl alcohol, Heptane, Methyl alcohol(1%\*@), N-butyl alcohol(39%\*), Phosphoric acid, Toluene(1%\*@), Water

**GAL WT: 6.81 WT PCT SOLIDS: 3.84 VOL PCT SOLIDS: 1.59**

**SOLVENT DENSITY: 6.66 VOC LE: 6.5 VOC AP: 5.0**

**FLASH POINT: Below 20 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB**

**TSCA STATUS: In Compliance PHOTO-CHEMICALY REACTIVE: NO**

**Footnotes:**

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**Notice:**

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.