

MATERIAL SAFETY DATA SHEET

ALTERNATE TOP COAT – DEVTHANE 379 ALIPHATIC URETHANE

**IDENTIFICATION AND EMERGENCY INFORMATION**

Product Name: Devthane 379 Aliphatic Urethane Gloss Enamel  
Supplier - Pulsafeeder Inc., 2883 Brighton-Henrietta Town Line Road, Rochester, NY 14623,  
(585)292-8000  
Emergency Telephone - (800) 545-2643

**HAZARDS IDENTIFICATION**

**(ANSI Section 3)**

**Primary route(s) of exposure:** Inhalation, skin contact, eye contact, ingestion.

**Effects of overexposure:**

**Inhalation:** Irritation of respiratory tract. Prolonged inhalation may lead to mucous membrane irritation, fatigue, drowsiness, dizziness and/or lightheadedness, headache, uncoordination, nausea, vomiting, coughing, apathy, central nervous system depression, intoxication, anesthetic effect or narcosis, difficulty of breathing, allergic response, tremors, liver damage, kidney damage, pulmonary edema, pneumoconiosis, loss of consciousness, death. Possible sensitization to respiratory tract.

**Skin contact:** Irritation of skin. Prolonged or repeated contact can cause dermatitis, defatting, allergic response, severe skin irritation. Possible sensitization to skin. Skin contact may result in dermal absorption of component(s) of this product which may cause drowsiness, dizziness and/or lightheadedness, central nervous system depression.

**Eye contact:** Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, redness of eyes, tearing of eyes, severe eye irritation, corneal injury.

**Ingestion:** Ingestion may cause lung inflammation and damage due to aspiration of material into lungs, mouth and throat irritation, drowsiness, dizziness and/or lightheadedness, headache, nausea, vomiting, diarrhea, gastro-intestinal disturbances, abdominal pain, apathy, central nervous system depression, intoxication, anesthetic effect or narcosis, pulmonary edema, convulsions, loss of consciousness.

**Medical conditions aggravated by exposure:** Eye, skin, respiratory disorders asthma-like conditions kidney disorders liver disorders nervous system disorders respiratory disorders.

**FIRST-AID MEASURES**

**(ANSI Section 4)**

**Inhalation:** Remove to fresh air. Restore and support continued breathing. Get emergency medical attention. Have trained person give oxygen if necessary. Get medical help for any breathing difficulty. Remove to fresh air if inhalation causes eye watering, headaches, dizziness, or other discomfort. Get medical attention if discomfort or irritation persists.

**Skin contact:** Wash thoroughly with soap and water. If any products remain, gently rub petroleum jelly, vegetable or mineral/baby oil onto skin. Repeated applications may be needed. Remove contaminated clothing. Wash contaminated clothing before re-use. If irritation occurs, consult a physician.

**Eye contact:** Flush immediately with large amounts of water, especially under lids for at least 15 minutes. If irritation or other effects persist, obtain medical treatment.

**Ingestion:** If swallowed, obtain medical treatment immediately.

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

**(ANSI Section 8)**

**Respiratory protection:** Respiratory protection is required for use in isocyanate containing environments. Consider type of application and environmental concentrations when selecting respiratory protection. Observe governmental regulations for respirator use. (29 CFR 1910.134(OSHA))(Canadian z94.4) The use of positive pressure supplied

air respirator is mandatory when the airborne isocyanate concentration are not known.

Note: isocyanate based materials have been determined to cause allergic sensitization in humans. Avoid inhalation and dermal (skin) contact with the uncured material.

**Ventilation:** Provide dilution ventilation or local exhaust to prevent build-up of vapors.

Use explosion proof equipment. Use non-sparking equipment.

**Personal protective equipment:** Eye wash, safety shower, safety glasses or goggles.

Impervious gloves, impervious clothing, face shield, apron.

#### STABILITY AND REACTIVITY

(ANSI Section 10)

**Under normal conditions:** Stable see section 5 fire fighting measures

**Material to avoid:** Oxidizers, acids, reducing agents, bases, aldehydes, amines, hydrogen chloride, peroxides, ammonia, nitric acid, vinyl polymers, metal compounds, phosphorus, hydrogen fluoride, magnesium, caustics. Nitrates

**Conditions to avoid:** Elevated temperatures, contact with oxidizing agent, sparks, open flame, ignition sources.

**Hazardous polymerization:** Will not occur.

#### TOXICOLOGICAL INFORMATION

(ANSI Section 11)

**Supplemental health information:** Contains a chemical that is moderately toxic by inhalation. Contains a chemical that may be absorbed through skin. Free diisocyanate may cause allergic reaction in susceptible persons. Notice-reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuses by deliberately concentrating and inhaling the contents may be harmful or fatal. Other effects of overexposure may include toxicity to liver, kidney, lungs, central nervous system, blood.

**Carcinogenicity:** Decomposition of diarylide pigments at temperature above 392<sup>o</sup>f (200c) can produce trace amounts monazo dyes, which can then decompose to produce aromatic amines. As the temperature increases into the 464-572f (240-300c), trace quantities of 3,3'-dichlorobenzidine (3,3'-dcb) can be detected. The national toxicity program (NTP) has classified 3,3'-dcb as a known carcinogen. The international agency for research on cancer (IARC) has classified 3,3' dcb as a possible human carcinogen (group 2b: sufficient animal data, inadequate human data). The international agency for research on cancer (IARC) has classified carbon black as possibly carcinogenic to humans (group 2b) based on sufficient evidence in animals and inadequate evidence in humans. The international agency for research on cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (group 2b) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate for cancer in exposed humans. In a 2 year inhalation study conducted by the national toxicity program (NTP), ethylbenzene vapor at 750 ppm produced kidney and testicular tumors in rats and lung and liver tumors in mice. Genetic toxicity studies showed no genotoxic effects. The relevance of these results to humans is not known.

**Reproductive effects:** High exposures to xylene in some animal studies, often at maternally toxic levels, have affected embryo/fetal development. The significance of this finding is not known.

**Mutagenicity:** No mutagenicity effects are anticipated

**Teratogenicity:** No teratogenic effects are anticipated

#### ECOLOGICAL INFORMATION

(ANSI Section 12)

No ecological testing has been done by ICI paints on this product as a whole.

#### DISPOSAL CONSIDERATIONS

(ANSI Section 13)

**Waste disposal:** Dispose in accordance with all applicable regulations. Avoid discharge to natural waters.

#### REGULATORY INFORMATION

(ANSI Section 14)

As of the date of this MSDS, all of the components in this product are listed (or are otherwise exempt from listing) on the TSCA inventory. This product has been classified in accordance with the hazardous criteria of the CPR (controlled products regulations) and the MSDS contains all the information required by the CPR.

**Physical Data (ANSI Sections 1,9, and 14)**

Product Code	Description	Wt./ Gal.	VOC Gr./ltr.	% Volatile by Volume	Flash Point	Boiling Point	HMIS	Dot, proper shipping name
379B0020	Devthane 379hs aliphatic urethane flat finish-base	8.93	391.75	47.75	80f	300-304	230	Paint,3,UNI1263,PGIII
379B0036	Devthane 379 aliphatic urethane gloss finish-base	8.29	410.44	49.09	80f	147-304	230	Paint,3,UNI1263,PGIII
379B3501	Devthane 379 aliphatic urethane gloss enamel-white base	10.59	374.61	42.89	80f	255-595	230	Paint,3,UNI1263,PGIII
379B8557	Devthane 379 aliphatic urethane gloss enamel-signal yellow base	8.70	402.51	46.16	80f	255-450	130	Paint,3,UNI1263,PGIII
379B9000	Devthane 379 safety red	9.04	373.41	42.46	80f	255-595	230	Paint,3,UNI1263,PGIII
379B9200	Devthane 379 aliphatic urethane gloss enamel safety orange base	9.22	367.78	41.90	80f	255-595	230	Paint,3,UNI1263,PGIII
379B9400	Devthane 379 aliphatic urethane gloss enamel safety yellow base	10.39	377.78	43.42	80f	255-595	330	Paint,3,UNI1263,PGIII
379B9500	Devthane 379 aliphatic urethane gloss enamel-white tint base	10.66	378.09	43.36	80f	255-595	230	Paint,3,UNI1263,PGIII
379B9501	Devthane 379 aliphatic urethane gloss enamel-deep tint base	10.82	371.98	42.59	80f	255-595	230	Paint,3,UNI1263,PGIII
379B9502	Devthane 379 aliphatic urethane gloss enamel-neutral tint base	10.72	359.39	41.02	80f	255-595	230	Paint,3,UNI1263,PGIII
379B9903	Devthane 379 aliphatic urethane gloss enamel-black base	10.09	382.28	43.78	80f	255-595	*230	Paint,3,UNI1263,PGIII
379C0910	Devthane 379hs converter	9.40	112.85	13.00	135f	293-293	*321	Resin Solution, combustible liquid, UN1866, PGIII

**Ingredients**                      **Products Codes with % by Weight (ANSI Section 2)**

<b>Chemical Name</b>	<b>Common Name</b>	<b>CAS. No.</b>	<b>379B002 0</b>	<b>379B003 6</b>	<b>379B350 1</b>	<b>379B855 7</b>	<b>379B900 0</b>	<b>379B920 0</b>
Benzene, ethyl-	Ethylbenzene	100-41-4		.1-1.0		.1-1.0	.1-1.0	.1-1.0
2-propanol, 1-methoxy-, acetate	Propylene glycol monomethyl ether	108-65-6						1-5
2-heptanone	Methyl amyl ketone	110-43-0	20-30	20-30	20-30	20-30	20-30	20-30
Silica gel, precipitated, crystalline-free	Silica, gel, amorphous	112926-00-8	10-20					
Ethane, 1,1',1''-methylidynetris(oxy)tris	Ethyl orthoformate	122-51-0			1-5	1-5	1-5	1-5
Acetic acid, butyl ester	Butyl acetate	123-86-4			10-20	10-20	10-20	10-20
Benzene, dimethyl-	Xylene	1330-20-7		.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0
Carbon black	Carbon Black	1333-86-4						
Titanium oxide	Titanium dioxide	13463-67-7			20-30	5-10		1-5
3h,pyrazol-3-one,4,4'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo))bis(2,4-dihydro-5-methyl-2-(4-methylphenyl)-	Pigment orange 34	15793-73-4						1-5
2-propanoic acid, ethyl ester, polymer with 2-ethylhexyl 2-propenoate	Resin plasticizer	26376-86-3	1-5					

Chemical Name	Common Name	CAS. No.	379B940 0	379B950 0	379B950 1	379B950 2	379B990 3	379C091 0
Benzene, ethyl-	Ethylbenzene	100-41-4						
2-propanol, 1-methoxy-, acetate	Propylene glycol monomethyl ether	108-65-6						
2-heptanone	Methyl amyl ketone	110-43-0	10-20	10-20	10-20	10-20	10-20	
Silica gel, precipitated, crystalline-free	Silica, gel, amorphous	112926-00-8						
Ethane, 1,1',1"-methylidynetris(oxy)tris	Ethyl orthoformate	122-51-0	1-5	1-5	1-5	1-5	1-5	
Acetic acid, butyl ester	Butyl acetate	123-86-4	10-20	10-20	10-20	10-20	10-20	5-10
Benzene, dimethyl-	Xylene	1330-20-7	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0
Carbon black	Carbon black	1333-86-4					1-5	
Titanium oxide	Titanium dioxide	13463-67-7	1-5	10-20	5-10			
3h-pyrazol-3-one,4,4'-diyl)bis(azol))bis(2,4-dihydro-5-methyl-2-(4-methylphenyl)-	Pigment orange 34	15793-73-4						
2-propanoic acid, ethyl ester, polymer with 2-ethylhexyl 2-propenoate	Resin plasticizer	26376-86-3						
2-Propanoic acid, 2-methyl-,2-hydroxyethyl ester, polymer with butyl 2-methyl-2-propenoate	Acrylic resin	2688-80-7	40-50	50-60				
2-naphthalenecarboxamide,4-((4(aminocarbonyl)phenyl)azo)-n-(2-ethoxyphenyl)-3-hydroxy-	Monazo red pigment	2786-76-7					5-10	

Hexane, 1,6-diisocyanato-, homopolmer	Aliphatic polyisocyanate	28182-81-2						
Hindered amine	Light stabilizer	41556-26-7					1-5	1-5
c.i.pigment yellow 42	Yellow iron oxide	51274-00-1					1-5	1-5
Paraffin waxes and hydrocarbon waxes, microcryst.	Microcrystalline wax	63231-60-7	1-5					
Butanamide, 2-((2-methoxy-4-nitrophenyl)azo)-n-(2-methoxyphenyl)-3-oxo-	Pigment yellow 74	6358-31-2						
Ethanol	Ethyl alcohol	64-17-5		.1-1.0				
Solvent naphtha (petroleum), light aromatic	Light aromatic solvent naphtha	64742-95-6	1-5	1-5				
Butanamide, 2-((4-methoxy-2-nitrophenyl)azo)-n-(2-methoxyphenyl)-3-oxo-	Yellow pigment	6528-34-3				1-5		5-10
Butanamide, 2-((2-methoxyphenyl)-3-oxo-	Yellow shading base	6558-31-2				5-10		
Rosin, polymerized	Rosin, polymerized	65997-05-9						
Silica	Amorphous silica	7631-86-9			1-5			
Sulfuric acid, barium salt	Barium sulfate	7727-43-7					5-10	5-10
2-butanone	Methyl ethyl ketone	78-93-3	1-5	1-5				
Castor oil	Castor oil, raw	8001-79-4			1-5		1-5	1-5
Stoddard solvent	Mineral spirits	8052-41-3					1-5	1-5
Hexane, 1,6-dissocyanato-	Hexamethylene diisocyanate	822-06-0						
Hexanol, acetate,	Hexanol acetate	88230-35-7	5-10	10-20				

branched and linear								
Benzene,1,2,4-trimethyl-	Pseudocumene	95-63-6	5-10	10-20				
Acrylic resin	Acrylic resin	Sup.Conf.			30-40	40-50	30-40	30-40
Polyol reactive diluent	Polyol reactive diluent	Sup.Conf.				5-10		
Dispersant	Dispersant	Sup.Conf.					1-5	
2-propanoic acid, 2-methyl-,2-hydroxyethyl ester, polymer with butyl 2-propenoate,ethenylbenzene and methyl 2-methyl-2-propenoate	Acrylic resin	26588-80-7						
2-naphthalenecarboxamide,4-((4(aminocarbonyl)phenyl)azo)-n-(2-ethoxyphenyl)-3-hydroxy-	Monazo red pigment	2786-76-7						
Hexane,1,6-diisocyanato-,homopolmer	Aliphatic polyisocyanate	28182-81-2						90-95
Hindered amine	Light stabilizer	41556-26-7						
c.i. pigment yellow 42	Yellow iron oxide	51274-00-1						
Paraffin waxes and hydrocarbon waxes, microcryst.	Microcrystalline wax	63231-60-7						
Butanamide,2-((2-methoxy-4-nitrophenyl)azo)-n-(2-methoxyphenyl)-3-oxo-	Pigment yellow 74	6358-31-2	1-5					
Ethanol	Ethyl alcohol	64-17-5						
Solvent naphtha (petroleum),	Light aromatic solvent	64742-95-6						1-5

light aromatic	naphtha							
Butanamide,2- ((4-methoxy-2- nitrophenyl)-3- oxo-	Yellow pigment	6528-34-3						
Butanamide,2- ((2-methoxy-4- notrophenyl)az o)-n-(2- methoxyphenyl )-3-oxo-	Yellow shading base	6558-31-2						
Rosin, polymerized	Rosin, polymerized	65997-05-9	.1-1.0					
Silica	Amorphous silica	7631-86-9						
Sulfuric acid, barium salt	Barium sulfate	7727-43-7		20-30	10-20	20-30	30-40	20-30
2-butanone	Methyl ethyl ketone	78-93-3						
Castor oil	Castor oil, raw	8001-79-4	1-5	1-5	1-5	1-5	5-10	1-5
Stoddard solvent	Mineral spirits	8052-41-3	1-5	1-5				
Hexane, 1,6- diisocyanato-	Hexamethyle ne dissocyanate	822-06-0						.1-1.0
Hexanol,acetat e,branched and linear	Hexanol acetate	88230-35-7						
Benzene, 1,2,4-trimethyl-	Pseudocume ne	95-63-6						1-5
Acrylic resin	Acrylic resin	Sup.Conf.	30-40	30-40	30-40	30-40	30-40	
Polyol reactive diluent	Polyol reactive diluent	Sup.Conf.						
Dispersant	Dispersant	Sup.Conf.						

**Physical Data (ANSI Sections 1,9, and 14)**

Product Code	Description	Wt./ Gal.	VOC Gr./ltr.	% Volatile by Volume	Flash Point	Boiling Point	HMS	Dot, proper shipping name
224FN253 1	Devran 224hs high build epoxy coating-in gray base	12.74	244.23	29.25	100f	241-355	*220	Paint, combustible liquid, UN 1263, PGIII
224FN253 4	Devran 224hs high build epoxy coating-medium gray base	12.76	243.51	29.18	100f	241-355	*220	Paint, combustible liquid, UN 1263, PGIII
224FN290 4	Devran 224hs high build epoxy coating-haze gray base	12.75	244.59	29.30	100f	241-355	*220	Paint, combustible liquid, UN 1263, PGIII
224FN350 1	Devran 224hs high build epoxy coating-white base	13.07	247.82	29.72	100f	241-355	*220	Paint, combustible liquid, UN1263 PGIII
224FN950 1	Devran 224hs high build epoxy coating deep tint base	11.86	264.60	31.73	100f	241-415	*320	Paint, combustible liquid, UN1263, PGIII
224FN950 2	Devran 224hs high build epoxy coating neutral tint base	10.85	272.39	32.67	100f	241-415	*320	Paint, combustible liquid, UN1263, PGIII
224GN090 8	Devran 224hs high build epoxy coating-converter	11.70	241.35	28.03	100f	277-415	*320	Paint, combustible liquid, UN1263. PGIII

**Ingredients Product Codes with % by Weight (ANSI Section 2)**

Chemical Name	Common Name	CAS. No.	224FN25 31	224FN25 34	224FN29 04	224FN35 01	224FN95 01	224FN95 02	224GN09 08
Benzene, ethyl-	Ethylbenzene	100-41-4	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0
2-pentanone, 4-methyl	Methyl isobutyl ketone	108-10-1	1-5	1-5	1-5	1-5	5-10	5-10	
1,3,5-trimethylbenzene	1,3,5-trimethylbenzene	108-67-8	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	1-5	.1-1.0
1,2,ethanodiamine, n,n'-bis(2-aminoethyl)	Triethylene tetramine	112-24-3							1-5



Fatty acids, c18-unsatd., dimers, reaction products with polyethylene polyamines	Polyamide resin	68410-23-1																	20-30
Silica	Barium sulfate	76631-86-9	1-5	1-5	1-5	1-5													
Sulfuric acid, barium salt	Barium sulfate	7727-43-7																	20-30
Benzene, 1, 2, 4-trimethyl-	Pseudocumene	95-63-6	1-5	1-5	1-5	1-5	1-5	1-5	1-5										5-10
Castor oil derivative	Rheological additive	Sup. Conf.																1-5	

**Chemical Hazard Data (ANSI Section 2, 8, 11, and 15)**

Common Name	CAS. No.	8-Hour TWA	STEL	C	S	8-Hour TWA	STEL	C	S	S. R. Std	S 2	S 3	C C	H	M	N	I	O
Ethylbenzene	100-41-4	100 ppm	125 ppm	NA	NA	100 ppm	NA	NA	NA	NA	N	Y	Y	Y	N	N	Y	N
Propylene glycol monomethyl	108-65-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Methyl amyl ketone	110-43-0	50 ppm	NA	NA	NA	100 ppm	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Silica, gel, amorphous	112926-00-8	10mg/m <sup>3</sup>	NA	NA	NA	6mg/m <sup>3</sup>	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Ethyl orthoformate	122-51-0	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Butyl acetate	123-86-4	150 ppm	200 ppm	NA	NA	150 ppm	NA	NA	NA	NA	N	N	Y	N	N	N	N	N
Xylene	1330-20-7	100 ppm	150 ppm	NA	NA	100 ppm	NA	NA	NA	NA	N	Y	Y	Y	N	N	N	N

Carbon Black	133-86-4	3.5 mg/m3	NA	NA	NA	3.5 mg/m3	NA	NA	NA	NA	N	N	N	N	N	N	Y	N
Pigment orange 34	15793-73-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Resin plasticizer	26376-86-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Monazo red pigment	2786-76-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Aliphatic polyisocyanate	28182-81-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Light Stabilizer	41556-26-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Yellow iron oxide	51274-00-1	5mg/m3	NA	NA	NA	10mg/m3	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Microrystalline wax	63231-60-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Pigment Yellow 74	6358-31-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Light aromatic solvent naphtha	64742-95-6	NA	NA	NA	500x ppm	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Yellow Pigment	6528-34-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Yellow shading base	6558-31-2	15mg/m3	NA	NA	NA	10/mg/m3	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Rosin, Polymerized	65997-05-9	5mg/m3	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Amorphous silica	7631-86-9	10 mg/m3	NA	NA	NA	6 mg/m3	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Barium sulfate	7727-43-7	10mg/m3	NA	NA	NA	5mg/m3	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Methyl ethyl ketone	78-93-3	200ppm	300ppm	NA	NA	200ppm	NA	NA	NA	NA	N	Y	Y	Y	N	N	N	N
Castor oil, raw	8001-79-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Mineral spirits	8052-41-3	100ppm	NA	NA	NA	500ppm	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Hexamethylene diisocyanate	822-06-0	0.005ppm	NA	NA	NA	NA	NA	NA	NA	NA	N	Y	Y	Y	N	N	N	N
Hexanol acetate	88230-35-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Pseudocumene	95-63-6	25 ppm	NA	NA	NA	NA	NA	NA	NA	NA	N	Y	N	N	N	N	N	N

Polyol reactive diluent	Sup. Conf.	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N
Dispersant	Sup. Conf.	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	N	N	N	N	N	N	N

**Footnotes:**

**C=ceiling-Concentration that should not be exceeded, even instantaneously.**

**S= Skin-Additional exposure, over and above airborne exposure, may result from skin absorption.**

**N/a=not applicable**

**NA = not established**

**CC= CERCLA Chemical**

**PPM= parts per million**

**Mg/m3=milligrams per cubic meter**

**Sup Conf= supplier Confidential**

**S2=Sara Section 302 EHS**

**S3= Sara Section 313 Chemical**

**S. R. Std.=Supplier Recommended Standard**

**H=Hazardous Air Pollutant**

**M=Marine Pollutant**

**P=Pollutant**

**S=Severe Pollutant**

**Carcinogenicity Listed By:**

**N=NTP, I=IARC, O=OSHA, Y=YES, N=NO**