CITY OF HOUSTON

Administration and Regulatory Affairs Department
Strategic Purchasing Division

Annise D. Parker
Mayor

Calvin D. Wells, Deputy Director
City Purchasing Agent
P.O. Box 1562
Houston, Texas 77251-1562

F. 832.393.8755
https://purchasing.houstontx.gov

October 15, 2010

Subject: Letter of Clarification No. 2 to Invitation to Bid No. S50-C23765 for Exterior Painting at the George R. Brown Convention Center, located at 1001 Avenida de las Americas for the Convention and Entertainment Facilities Department

To: All Prospective Contractors:

This letter of Clarification is being issued for the following reasons:

- **To revise the above referenced solicitation as follows:**

1. See attached new specifications for Devthane 379 Clear Urethane as per pages 27 through 31 of 41, dated 10/15/2010.

2. Please refer to the on-line electronic bid form and provide pricing for Group 2. (Devthane 379 Clear Urethane)

When issued, Letter(s) of Clarification shall automatically become a part of the bid documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. It is the responsibility of the bidders to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidders shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this solicitation.

Furthermore, it is the responsibility of each Contractor to obtain any previous Letter of Clarification associated with this solicitation.

Arturo Lopez
Senior Procurement Specialist
832-393-8731

Attachments: Additional pages, 27, 28, 29, 30 & 31 of 41, dated 10/15/2010

A PDF version of the Paint Specifications, can also be viewed on the following web link
https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C23765

DEVOE HIGH PERFORMANCE COATINGS

DEVTHANE® 379UVA

Clear Aliphatic Urethane Finish

Cat. # 379K0036 Gloss Clear
Cat. # 379K0020 Flat Clear

PRODUCT DESCRIPTION

Generic: Aliphatic Acrylic Polyurethane

General Description: A high performance, two-component chemically-cured clear aliphatic urethane finish for use in areas where maximum gloss retention is required.

Typical Uses: For use on properly prepared and primed steel, concrete or steel floors, masonry, metal, concrete block, galvanized, aluminum, and poured concrete. Ideal for use on exterior or interior structural steel, piping, metal buildings, control cabinetry, conveyors, pumps, storage tanks, motors, machinery, and transportation vehicles.

FEATURES

Advantages:
- Exceptional gloss retention
- Excellent abrasion and chemical resistance
- Higher solids and higher film build than typical urethane finishes
- VOC compliant urethane
- Easily applied by brush, roller or spray
- Excellent resistance to marring, chipping, and scratching
- Provides added protection to urethane color coats
- Contains Ultraviolet Light absorber
- Gloss Clear may be used over DEVTHANE 379UVA Enamel for improved weather resistance

Graffiti Resistance: Excellent resistance to most graffiti materials such as spray paint, magic markers and lipstick. Contact your ICI Paints' Representative for more information on the graffiti removing cleaner to service your needs.

Limitations of Use: Color may change as temperature approaches 250°F (121°C) limit, but the film will remain intact. Not recommended for exterior use over epoxies, alkyds or oil-base paints. Not recommended for interior use over alkyd or oil-base paints. **Flat Clear should not be used for graffiti resistance purposes.**

SPECIFICATION DATA

Color: Clear
Finish: Gloss – 90 units minimum @ 60°(379K0036), Flat < 30 units maximum @ 85°(379K0020)
Reduction Solvent: T-9 or T-17 Thinner – see Thinning
Clean-up Solvent: T-9 Thinner
Weight/Gallon: 8.5 lbs./gal. (1.01 kg/L)
VOC (EPA 24): 3.0 lbs./gal. (360 g/L)
Solids By Volume: 57%
Theoretical Coverage at 1.0 Mil (25 microns) Dry: 914 sq. ft. (22.4 m²/L)
Recommended Film Thickness: 2.0-3.0 mils (50-75 microns) dry – 4.0-6.0 mils (100-150 microns) wet
Systems: Please consult the appropriate system guide, the particular job specification or your ICI Paints' Representative for proper systems using this product. Systems must be selected considering the particular environment involved.
Service Temperature Limits: 250°F (121°C) dry
Minimum Dry Time (ASTM D 1640): At 3 mils (75 microns) DFT

Substrate Temperature	40°F (4°C)	60°F (16°C)	80°F (27°C)
Minimum Recoat	10 Hours	6 Hours	3 Hours
Dry Hard	>32 Hours	24 Hours	16 Hours
Maximum Recoat Self	2 Weeks	2 Weeks	2 Weeks

Ventilation, film thickness, humidity, thinning and other factors can influence the rate of dry.

Warning: The above table provides general guidelines only. Always consult your ICI Paints' Representative for appropriate recoat windows since the maximum aged recoat time of this product may be significantly shortened or lengthened by a variety of conditions, including, but not limited to humidity, surface temperature, and the use of additives or thinners. The use of accelerators or force curing may shorten the aged recoat of individual coatings. The above recoat windows may not apply if recoating with a product other than those listed above. If the maximum aged recoat window is exceeded, please consult your ICI Paints' Representative for appropriate recommendations to enhance adhesion. Failure to observe these precautions may result in intercoat delamination.

Shelf Life: Over 24 months at 77°F (25°C) – unopened
Hardness (ASTM D 3363, 7 day cure @ 77°F (25°C): 4H
Mix Ratio By Volume: 4 (base): 1 (converter) – see mixing instructions.
Induction: None required – see mixing instructions.
Pot Life: 4 hours @ 77°F (25°C) & 50% R.H.

PERFORMANCE DATA

Abrasion Resistance: (ASTM D 4060) – Very Good
Humidity Resistance: (ASTM D 4585) – Very Good

9 FINISHES HIGH PERFORMANCE COATINGS (09960)

09960

DANGER! FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. Read Label and Material Safety Data Sheet Prior to Use. See other cautions on last page. DSF3-0696

Back Page: 379KXXXX

GENERAL SURFACE PREPARATION

All surfaces must be sound, dry, clean, free of oil, grease, dirt, mildew, form release agents, curing compounds, loose and flaking paint and other foreign substances.

Previously Painted Surfaces: May be applied as a protective clear coat to two-component colored polyurethane coatings and epoxies for interior use. Not recommended over alkyd or oil-based paints.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead

DIRECTIONS FOR USE

Tinting: Do not tint.

Thinning: Thinning is not normally required. However, depending on local VOC and air quality regulations, small amounts (5% or less) of T-9 Thinner may be added. Small amounts (5% or less) of T-17 Thinner may improve roller, brush or spray application on hot substrates. If local VOC and/or air quality regulations are not an issue, and depending on the individual set-up of the spray equipment, additional thinning may be allowed to obtain the desired individual finish. Contact your local ICI Paints' Representative for additional information.

Mixing: DEVTHANE® 379UVA Enamel is a two-component product supplied in 5 gallon or 1 gallon kits which contain the proper ratio of ingredients. The entire contents of each container must be mixed together. It is important that all mixing equipment is free of moisture and that moisture does not contaminate the coating. Mix the base portion to obtain a smooth, homogeneous condition. After mixing the base portion, add the converter slowly with continued agitation. Mix thoroughly. The pot life of the mixed material is 4 hours at 77° (25°C). Higher temperatures will reduce working life of the coating; lower temperatures will increase it.

Application: Apply by airless spray, air spray, roller or brush. For airless spray, any air, electric, or gas operated airless sprayer capable of 3,000 psi (207 bars) and able to support a .011" to .017" tip sizes can be used. Multiple guns and long fluid lines require pumps with adequate capacity. For air spray application, use a Graco #800 gun; a .070" or larger fluid tip. Adjust fluid and air pressure to get a good spray pattern.

Note: Be sure all spray equipment and fluid lines are clean, and free of water or solvents. For brush application, use good quality, dry, clean brushes. **For roller application use new, short nap mohair rollers.** Do not apply over wet surfaces or under very humid conditions where condensation or fog could settle on the coating during the cure process. Brushing and rolling may require multiple coats to achieve correct film thickness and/or hiding.

Spreading Rate: For maximum protection in corrosive areas, apply at 335 sq. ft. per gallon (8.2 m^2/L) or 3.0 mils (75 microns) dry-4.8 mils (120 microns) wet. In mild to moderate exposures, apply at 500 sq. ft. per gallon (12.25 m^2/L) or 2.0 mils (50 microns) dry-3.2 mils (80 microns) wet. Make allowance for any losses due to overspray or surface irregularities.

Dry Time: At 80°F (27°C) & 50% R.H., dries to recoat in 3 hours and dries hard in 16-24 hours.

Clean-up: Use T-9 Thinner.

Cure Acceleration: DEVTHANE Cure Accelerator 070A0000 may be used to accelerate cure of this urethane at or below 40°F (5°C). 070A0000 us prepackaged (5 fluid ounces in a one-half pint container) for field addition. The addition of one to two ounces per gallon of urethane (one to two containers per five gallons of urethane) will decrease the dry hard time approximately one-third to one-half respectively. The pot life will be reduced one-half to three-fourths.

Utraviolet Light Absorbers (UVA): DEVTHANE Ultraviolet Light Absorber 080A0000 is already contained in DEVTHANE 379UVA Clear Aliphatic Urethane Finish. Additional Ultraviolet Llight Absorber is not required nor desired.

PRECAUTIONS

DANGER! FLAMMABLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD - CAN ENTER LUNGS AND CAUSE DAMAGE. HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. OVEREXPOSURE MAY CAUSE BLOOD, LIVER, KIDNEY DAMAGE. USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Products in this series contain solvents. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. For emergency information call (800) 545-2643. **Note: These warnings encompass the product series. Prior to use, read and follow product-specific MSDS and label information.** Keep away from heat, sparks and flame. **Do not** smoke. Vapors may ignite. Extinguish all flames, burners, stoves, heaters and pilot lights and disconnect all electrical motors and appliances before use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. If sanding is done, wear a dust mask to avoid breathing of sanding dust. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, leave the area. If properly used, a respirator may offer additional protection. Obtain professional advice before using. Close container after each use. **FIRST AID:** In case of skin contact, wash thoroughly with soap and water. If any product remains, gently rub petroleum jelly, vegetable or mineral/baby oil onto skin, then wash again with soap and water. Repeated applications may be needed. Remove contaminated clothing. For eye contact, flush **immediately** with large amounts of water, for at least 15 minutes. **Obtain emergency medical treatment.** If swallowed, **obtain medical treatment immediately.** If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, **get medical help. KEEP FROM FREEZING.**

SHIPPING

Flash Point: 80°F (27°C)

Packaging: 1 gallon kit (3.785L) — 0.80 gallon base — 0.20 gallon converter
5 gallon kit (18.925L) — 4.0 gallon base — 1.0 gallon converter

Shipping Weight: 4 - 1 gallon kits - 40 lbs. (18.2 kg)
5 gallon kit - 49 lbs. (22 kg)

379K0036/379K0020 (09/03)
Ad Stock #68677G

DEVOE HIGH PERFORMANCE COATINGS
ICI Paints
Cleveland, Ohio U.S.A.
800-654-2616
www.devoecoatings.com

LIMITATION OF LIABILITY: [illegible] MAKE NO OTHER WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. [illegible] OR LOSS OF PROFITS AND OTHER CONSEQUENTIAL DAMAGES ARE HEREBY EXCLUDED.

DEVOE HIGH PERFORMANCE COATINGS

MATERIAL SAFETY DATA SHEET

prepared 09.24.07

DEVTANE 379HS ALIPHATIC URETHANE GLOSS

379HCLEAR

ICI Paints North America 15885 Sprague Road Strongsville, Ohio 44136 EMERGENCY TELEPHONE NO. (800) 345-2243

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: Inhalation of spray mist may cause irritation of respiratory tract. Mucous membrane irritation, fatigue, drowsiness, dizziness and or lightheadedness, headache, uncoordination, nausea, vomiting, coughing, central nervous system depression, intoxication, anesthetic effect or narcosis, difficulty of breathing, allergic response, irritation, pulmonary edema, loss of consciousness, death. Possible sensitization to respiratory tract

Skin contact : Irritation of skin. Prolonged or repeated contact can cause dermatitis, defatting, severe skin irritation. Possible sensitization to skin

Eye contact : Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, blurred vision, tearing of eyes, redness 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, uncoordination, nausea, vomiting, diarrhea, gastro-intestinal disturbances, abdominal pain, central nervous system depression, liver damage, kidney damage, pulmonary edema, loss of consciousness.

Medical conditions aggravated by exposure : Eye, skin, respiratory disorders, kidney disorders, liver disorders, nervous system disorders, allergies.

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

Skin contact : Wash thoroughly with soap and water. If any product remains, 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.

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

FIRE-FIGHTING MEASURES (ANSI Section 5)

Fire extinguishing media : Dry chemical or foam water fog. Carbon dioxide. Closed containers may explode when exposed to extreme heat or fire. Vapors may ignite explosively at ambient temperatures. Vapors are heavier than air and may travel long distances to a source of ignition and flash back. Vapors can form explosive mixtures in air at elevated temperatures. Closed containers may burst if exposed to extreme heat or fire. May decompose under fire conditions emitting irritant and or toxic gases

Fire fighting procedures : Water may be used to cool and protect exposed containers. Firefighters should use full protective clothing, eye protection and self-contained breathing apparatus.

Hazardous decomposition or combustion products : Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases.

ACCIDENTAL RELEASE MEASURES (ANSI Section 6)

Steps to be taken in case material is released or spilled : Comply with all applicable health and environmental regulations. Eliminate all sources of ignition. Ventilate area. Ventilate area with explosion-proof equipment. Spills may be collected with absorbent materials. Use non-sparking tools. Evacuate all unnecessary personnel. Place collected material in proper container. Complete personal protective equipment must be used during cleanup. Large spills - shut off leak if safe to do so. Dike and contain spill. Pump to storage or salvage vessels. Use absorbent to pick up excess residue. Keep salvageable material and rinse water out of sewers and water courses. Small spills - use absorbent to pick up residue and dispose of properly.

HANDLING AND STORAGE (ANSI Section 7)

Handling and storage : Store below 80f. Store below 100f (38c). Keep away from heat, sparks and open flame. Store in original container. Keep away from direct sunlight, heat and all sources of ignition. Keep container tightly closed in a well-ventilated area.

Other precautions : Use only with adequate ventilation. Do not take internally. Keep out of reach of children. Avoid contact with skin and eyes, and breathing of vapors. Wash hands thoroughly after handling, especially before eating or smoking. Keep containers tightly closed and upright when not in use. Empty containers may contain hazardous residues. Ground equipment when transferring to prevent accumulation of static charge.

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 concentrations 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, boots.

STABILITY AND REACTIVITY (ANSI Section 10)

Under normal conditions : Stable see section 5 fire fighting measures

Materials to avoid : Oxidizers, acids, bases, amines, water, peroxides, nitric acid, alcohols, combustible materials, caustics, Nitrates.

Conditions to avoid : Elevated temperatures, moisture, 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 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 misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Other effects of overexposure may include toxicity to liver, kidney, central nervous system, blood.

The information contained herein is based on data available at the time of preparation of this data sheet which ICI Paints believes to be reliable. However, no warranty is expressed or implied regarding the accuracy of this data. ICI Paints shall not be responsible for the use of this information, or of any product, method or apparatus mentioned and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and the health and safety of your employees and the users of this material.
Complies with OSHA hazard communication standard 29CFR1910.1200

Carcinogenicity : 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 evidence for cancer in exposed humans. In a 2 year inhalation study conducted by the national toxicology 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. In a 2-year inhalation bioassay conducted by the national toxicology program (NTP), ethylene glycol butyl ether (egbe) caused an increased incidence of liver tumors in male mice and forestomach tumors in female mice exposed to 250 ppm, the highest concentration tested with mice. In rats, an increased incidence of tumors affecting the adrenal gland was seen in females exposed at 125 ppm only. This finding was not statistically significant. No increased incidence of any tumor type was seen in male rats exposed to the highest test concentration of 125ppm. The relevance of these findings to humans is unclear.

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 to humans is not known.

Mutagenicity : No mutagenic 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 15)

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 hazard 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 Range	HMIS	DOT, proper shipping name
379C0910	devthane 379 ns converter	9.40	112.85	13.00	135 f	293-293	*321	UN1866 resin solution, combustible liquid, PGIII
379F0036	devthane 379ns aliphatic urethane gloss enamel - clear gloss	8.31	119.35	36.34	70 f	208-595	340	UN1263,paint, 3, PGII

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

Chemical Name	Common Name	CAS. No.	379C0910	379F0036
benzene, ethyl-	ethylbenzene	100-41-4		.1-1.0
polyoxy-1,2-ethanediyl, alpha-(3-(3-(2h-benzotria yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl)-1-oxopro omega-hydroxy-	uv absorber	104810-48-2		1-5
4-heptanone, 2,6-dimethyl-	diisobutyl ketone	108-83-8		1-5
ethanol, 2-butoxy-	2-butoxyethanol	111-76-2		1-1.0
acetic acid, butyl ester	butyl acetate	123-86-4	5-10	1-5
benzene, dimethyl-	xylene	1330-20-7	1-1.0	1-1.0
2-propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propeno and methyl 2-methyl-2-propenoate	acrylic polymer	26916-05-2		20-30
hexane, 1,6-diisocyanato-, homopolymer	aliphatic polyisocyanate	28182-81-2	90-95	
acetic acid, 1,1-dimethylethyl ester	tert-butyl acetate	540-88-5		20-30
ethanol	ethyl alcohol	64-17-5		.1-1.0
solvent naphtha (petroleum), light aromatic	light aromatic solvent naphtha	64742-95-6	1-5	
castor oil	castor oil, raw	8001-79-4		10-20
hexane, 1,6-diisocyanato-	hexamethylene diisocyanate	822-06-0	.1-1.0	
acetic acid, c6-8-branched alkyl esters	oxo-heptyl acetate	90438-79-2		1-5
benzene,1,2,4-trimethyl-	pseudocumene	95-63-6	1-5	1-1.0
modified acrylic copolymer	modified acrylic copolymer	Sup. Conf		30-40

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

Common Name	CAS. No.	ACGIH-TLV 8-Hour TWA	ACGIH-TLV STEL	ACGIH-TLV C	ACGIH-TLV S	OSHA-PEL 8-Hour TWA	OSHA-PEL STEL	OSHA-PEL C	OSHA-PEL S	S.R. Std.	S2	S3	CC	H	M	N	I	O
ethylbenzene	100-41-4	100 ppm	125 ppm	not est.	not est.	100 ppm	not est.	not est.	not est.	not est.	n	y	y	y	n	n	y	n
uv absorber	104810-48-2	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
diisobutyl ketone	108-83-8	25 ppm	not est.	not est.	not est.	50 ppm	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
2-butoxyethanol	111-76-2	20 ppm	not est.	not est.	not est.	50 ppm	not est.	not est.	y	not est.	n	y	n	n	n	n	n	n
butyl acetate	123-86-4	150 ppm	200 ppm	not est.	not est.	150 ppm	not est.	not est.	not est.	not est.	n	n	y	n	n	n	n	n
xylene	1330-20-7	100 ppm	150 ppm	not est.	not est.	100 ppm	not est.	not est.	not est.	not est.	n	y	y	y	n	n	n	n

Footnotes:
C=Ceiling - Concentration that should not be exceeded even instantaneously
S=Skin - Additional exposure, over and above airborn exposure, may result from skin absorption
n/a=not applicable
not est=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

10/15/2010

Chemical Hazard Data (Continued) (ANSI Sections 2, 8, 11, and 15)

Common Name	CAS. No.	ACGIH-TLV 8-Hour TWA	ACGIH-TLV STEL	ACGIH-TLV C	ACGIH-TLV S	OSHA-PEL 8-Hour TWA	OSHA-PEL STEL	OSHA-PEL C	OSHA-PEL S	S.R. Std.	S2	S3	CC	H	M	N	I	O
acrylic polymer	26916-05-2	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
aliphatic polyisocyanate	28182-81-2	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
tert-butyl acetate	540-88-5	200 ppm	not est.	not est.	not est.	200 ppm	not est.	not est.	not est.	not est.	n	n	y	n	n	n	n	n
light aromatic solvent naphtha	64742-95-6	not est.	not est.	not est.	not est.	500x ppm	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
castor oil, raw	8001-79-4	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
hexamethylene diisocyanate	822-06-0	0.005 ppm	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	y	y	y	n	n	n	n
oxo-hexyl acetate	90438-79-2	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
pseudocumene	95-63-6	25 ppm	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	y	n	n	n	n	n	n
modified acrylic copolymer	Sup. Conf.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	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
not est=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