

# **SAFETY DATA SHEET**

Flux-Off® Delta

# Section 1. Identification

GHS product identifier	: Flux-Off® Delta
Product code	: DEL192,DEL592,DEL5592
Other means of identification	<ul> <li>Fluxing agents Remover.</li> <li>Non-flammable. (ASTM D56 TAG CC) Cleaning solutions.</li> </ul>
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised against Not applicable.

Supplier's details	: Chemtronics 8125 Cobb Center Drive Kennesaw, GA 30152
	Tel. 770-424-4888 or toll free 800-645-5244
Emergency telephone number (with hours of operation)	: Chemtrec - 1-800-424-9300 or collect 703-527-3887 24/7

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 45%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Harmful if swallowed. Causes serious eye irritation. Causes skin irritation.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention
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 Storage
 : Not applicable.

 Disposal
 : Dispose of contents and container in accordance with all local, regional, national and international regulations.

 Hazards not otherwise
 : None known.

Hazards not otherwise classified

### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

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: Mixture

: Fluxing agents Remover.

Non-flammable. (ASTM D56 TAG CC) Cleaning solutions.

Ingredient name	%	CAS number
trans-dichloroethylene	≥25 - ≤50	156-60-5
tetrahydrofuran	≤3	109-99-9
methanol	≤3	67-56-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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### Section 4. First aid measures

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Description of necessary first	aid measures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important sympt	oms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.</li> </ul>
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs</u>	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

# Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: dizziness/vertigo drowsiness/fatigue headache
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: Adverse symptoms may include the following: Irritating to mouth, throat and stomach. Ingestion Seek medical attention.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

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Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishin media	g :	None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	;	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds carbonyl halides
Special protective actions for fire-fighters	<b>s</b> :	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighter		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	

### Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name			Exposure limits	6	
trans-dichloroethylene			ACGIH TLV (Un	ited States, 3/2015).	
-			TWA: 200 ppm	8 hours.	
			TWA: 793 mg/i		
tetrahydrofuran			•	ited States, 3/2015).	
			Absorbed throu		
			STEL: 100 ppn	•	
			TWA: 50 ppm 8		
				ited States, 10/2013).	
			STEL: 735 mg/		
			STEL: 250 ppm		
			TWA: 590 mg/i		
			TWA: 200 ppm		
				ted States, 2/2013).	
			TWA: 590 mg/i	m <sup>3</sup> 8 hours.	
			TWA: 200 ppm	8 hours.	
				9 (United States, 3/198	9).
			STEL: 735 mg/	m <sup>3</sup> 15 minutes.	-
			STEL: 250 ppm	າ 15 minutes.	
			TWA: 590 mg/i	m³ 8 hours.	
			TWA: 200 ppm	8 hours.	
ate of issue/Date of revision : 8	/28/2019	Date of previous issue	: 6/19/2019	Version : 2	4/

# Section 8. Exposure controls/personal protection

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methanol	ACGIH TLV (United States, 3/2015). Absorbed through skin. STEL: 328 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. NIOSH REL (United States, 10/2013). Absorbed through skin. STEL: 325 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 260 mg/m <sup>3</sup> 10 hours. TWA: 200 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 260 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. TWA: 200 ppm 8 hours. TWA: 200 ppm 8 hours. STEL: 325 mg/m <sup>3</sup> 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes.
	STEL: 250 ppm 15 minutes. TWA: 260 mg/m <sup>3</sup> 8 hours.
	TWA: 200 mg/m² 8 hours. TWA: 200 ppm 8 hours.
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Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>sures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid. [Liquid.]
Color	: Clear. Colorless.
Odor	: Ethereal.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: 37°C (98.6°F)
Flash point	: Closed cup: >93.3°C (>199.9°F) [Tagliabue.] None per ASTM D-56 (TAG CC)
Evaporation rate	: >1 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 27.3 kPa (205 mm Hg) [room temperature]
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Avoid increased storage temperature.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

6/13

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
trans-dichloroethylene	LC50 Inhalation Gas.	Rat	24100 ppm	4 hours
-	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1235 mg/kg	-
tetrahydrofuran	LD50 Oral	Rat	1650 mg/kg	-
methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
trans-dichloroethylene	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
methanol	None.	-	-

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Information on the likely : Not available.

#### routes of exposure

Potential acute health effects

Fotential acute health enects	
Eye contact	: Causes serious eye irritation.
Inhalation	: At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed.

# Section 11. Toxicological information

Symptoms related to the physi	cal, chemical and toxicological characteristics
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: dizziness/vertigo drowsiness/fatigue headache
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion	Adverse symptoms may include the following: Irritating to mouth, throat and stomach. Ingestion Seek medical attention.

Delayed and immediate effects and also chronic effects from short and long term exposure							
<u>Short term exposure</u>							
Potential immediate effects	1	Not available.					
Potential delayed effects	:	Not available.					
Long term exposure							
Potential immediate effects	1	Not available.					
Potential delayed effects	:	Not available.					
Potential chronic health effe	Potential chronic health effects						
Not available.	Not available.						
General	:	No known significant effects or critical hazards.					
Carcinogenicity	:	No known significant effects or critical hazards.					
Mutagenicity	:	No known significant effects or critical hazards.					
Teratogenicity	:	No known significant effects or critical hazards.					
<b>Developmental effects</b>	:	No known significant effects or critical hazards.					
Fertility effects	:	No known significant effects or critical hazards.					

#### Numerical measures of toxicity

Acute toxicity estimates			
Ī	Route	ATE value	
(	Oral	1472.7 mg/kg	

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
trans-dichloroethylene	Acute LC50 220000 to 290000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
tetrahydrofuran	Acute LC50 2160000 to 2360000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 367 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
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### Section 12. Ecological information

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	Acute LC50 3289 to 4395 mg/l Fresh	Daphnia - Daphnia magna -	48 hours
	water	Neonate	
	Acute LC50 290 mg/I Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
trans-dichloroethylene	2.09	-	low
tetrahydrofuran	0.45	-	low
methanol	-0.77	<10	low

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

#### Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

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	Disposal	methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
1,2-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-	156-60-5	Listed	U079
Tetrahydrofuran (I); Furan, tetrahydro-(I)	109-99-9	Listed	U213
Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154

### Section 14. Transport information

/RID IMDG IATA	ADF	ation C	TDG Classifica	DOT Classification	
ulated. Not regulated. Not regulated	ed. Not reg	ted. No	Not regulate	Not regulated.	UN number
	-	-	-	-	UN proper shipping name
	-	-	-	-	Transport hazard class(es)
	-	-	-	-	Packing group
/19/2	-  -  :  :	Date of pre	2019	- revision : 8/28/	Packing group

# Section 14. Transport information

Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	Reportable guantity 2222.2 lbs / 1008.9 kg [214. 94 gal / 813.62 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	-	-	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

### Section 15. Regulatory information

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U.S. Federal regulations	: TSCA 8(a) PAIR: tetrahydrofuran	
	TSCA 8(a) CDR Exempt/Partial exemption: Not	t determined
	United States inventory (TSCA 8b): All compon	ents are listed or exempted.
	Clean Water Act (CWA) 307: trans-dichloroethyl	ene
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed	
Clean Air Act Section 602 Class I Substances	: Not listed	
Clean Air Act Section 602 Class II Substances	: Not listed	
DEA List I Chemicals (Precursor Chemicals)	: Not listed	
DEA List II Chemicals (Essential Chemicals)	: Not listed	
SARA 302/304		
Composition/information	n ingredients	
No products were found.		
SARA 304 RQ	: Not applicable.	
SARA 311/312		
Classification	: Immediate (acute) health hazard	
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### Section 15. Regulatory information

**Composition/information on ingredients** 

Name	%		Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
trans-dichloroethylene	≥25 - ≤50	Yes.	No.	No.	Yes.	No.
tetrahydrofuran	≤3	Yes.	No.	No.	Yes.	No.
methanol	≤3	Yes.	No.	No.	Yes.	No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	methanol	67-56-1	≤3
Supplier notification	methanol	67-56-1	≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

Massachusetts	<ul> <li>The following components are listed: DICHLOROETHYLENE-TRANS; TETRAHYDROFURAN; BUTYLENE OXIDE; METHANOL; METHYL ALCOHOL</li> </ul>
New York	<ul> <li>The following components are listed: Ethene, trans-1,2-dichloro-; Dichloroethylene; Tetrahydrofuran; Methanol</li> </ul>
New Jersey	<ul> <li>The following components are listed: TETRAHYDROFURAN; 1,4-EPOXYBUTANE; METHYL ALCOHOL; METHANOL</li> </ul>
Pennsylvania	<ul> <li>The following components are listed: ETHENE, 1,2-DICHLORO-, (E)-; FURAN, TETRAHYDRO-; METHANOL</li> </ul>

#### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer		No significant risk level	Maximum acceptable dosage level
methanol	No.	Yes.		23000 μg/day (ingestion) 47000 μg/day (inhalation)

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### International lists

National	l inventory

Australia	: Not determined.

**Canada** : All components are listed or exempted.

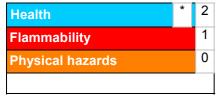
Date of issue/Date of revision

### Section 15. Regulatory information

China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.

### Section 16. Other information





Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A	Calculation method Calculation method Calculation method
History	

history	
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# Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.