

Safety Data Sheet

Material: CS-80

Version: 1.0

Date of print: 08/13/2018

Date of last alteration: 08/13/2018

1. Product and company identification

1.1 Identification of the substance or preparation:

Commercial product name: CS-80
Use of substance / preparation: Concrete primer for elastomeric sealants

1.2 Company/undertaking identification:

Manufacturer/distributor: Concrete Sealants, Inc.
State Route 201, Tipp City, OH 45371
USA

Customer information: InfoLine:
Tel: (800) 332-7325; (937) 845-8776
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.conseal.com

Emergency telephone no. (24h):
Transportation emergency: (800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (GHS):

Class	Category	Route of exposure
Aspiration hazard	Category 1	
Acute aquatic toxicity	Category 3	
Specific target organ toxicity (repeated exposure)	Category 2	
Specific target organ toxicity (single exposure)	Category 3 (narcotic effects)	
Reproductive toxicity	Category 2 (developmental toxicity)	
Serious eye damage / eye irritation	Category 2A	
Skin corrosion/irritation	Category 2	
Flammable liquids	Category 2	

2.2 Label elements

Labelling (GHS):

Pictogram(s):



Signal Word: Danger

H-Code	Hazard Statements
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness and dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.

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P-Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe vapours/spray.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P370+P378	In case of fire: Use water spray, extinguishing powder or carbon dioxide to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to waste disposal.

2.3 Other hazards

No data available.

3. Composition/information on ingredients

3.1 Chemical characterization (preparation)

Chemical characteristics

Alkylsilicone resin + solvent

3.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	67-64-1	Acetone	>50.0	<60.0	
INHA	108-88-3	Toluene	>10.0	<12.0	R
INHA	78-10-4	Ethyl silicate		<2.0	
INHA	1071-76-7	zirconium butanolate		<0.3	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

4. First-aid measures

4.1 General information:

Get medical attention if irritation occurs or if breathing becomes difficult.

4.2 After inhalation

If inhaled, remove to fresh air, keep the victim laying down and restful. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

4.3 After contact with the skin

If contact with skin, immediately flush skin with plenty of water or with water and soap. Remove contaminated clothing and shoes immediately.

4.4 After contact with the eyes

If contact with eyes, immediately hold eyelids apart and flush with plenty of water.

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4.5 After swallowing

If swallowed, do not induce vomiting. Danger of aspiration. If swallowed, give victim several glasses of water. Get medical attention immediately.

5. Fire-fighting measures

5.1 Flammable properties:

Property:	Value:	Method:
Flash point.....	-18 °C (-0 °F)	
Boiling point / boiling range.....	56 °C (132 °F) at 1013 hPa	
Lower explosion limit (LEL).....	2.3 %(V)	
Upper explosion limit (UEL).....	13.0 %(V)	
Ignition temperature.....	540 °C (1,004 °F)	
NFPA Hazard Class (comb./flam.liquid).....	IB	

5.2 Fire and explosion hazards:

Danger! Extremely flammable liquid and vapor. Vapor may cause flash fire. Consider possible formation of explosive mixtures with air, for example in uncleaned containers. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. Electrostatic charging is possible.

5.3 Recommended extinguishing media:

water-spray , carbon dioxide , dry chemical or alcohol-resistant foam .

5.4 Unsuitable extinguishing media:

sharp water jet .

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Hazardous decomposition products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide and incompletely burnt hydrocarbons . Heavy soot formation during combustion.

5.6 Fire fighting procedures:

Cool endangered containers with water. Fire fighters should wear full protective clothing including a positive pressure self-contained breathing apparatus.

6. Accidental release measures

6.1 Precautions:

Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapours.

HAZWOPER PPE Level: C

6.2 Containment:

Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods for cleaning up

Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Exhaust vapours.

6.4 Further information:

Eliminate all sources of ignition.

7. Handling and storage

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7.1 Handling

Precautions for safe handling:

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. Ensure adequate ventilation. Must be syphoned off in situ.

Precautions against fire and explosion:

Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Storage

Conditions for storage rooms and vessels:

Make sure there is no possibility of entering the ground.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Keep container tightly closed and store in a cool, well ventilated place. Protect against moisture. Protect against sun.

8. Exposure controls and personal protection

8.1 Engineering controls

Ventilation:

Use only with adequate ventilation.

Local exhaust:

recommended

8.2 Associate substances with specific control parameters such as limit values

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.
67-64-1	Acetone	OSHA PEL	2,400.0	1,000.0	
108-88-3	Toluene	OSHA PEL		200.0	
78-10-4	Tetraethyl silicate	OSHA PEL	850.0	100.0	
64-17-5	Ethanol	OSHA PEL	1,900.0	1,000.0	
67-64-1	Acetone	ACGIH TWA		500.0	
108-88-3	Toluene	ACGIH TWA		20.0	
78-10-4	Tetraethyl silicate	ACGIH TWA		10.0	

Re Acetone (CAS no. 67-64-1): STEL is 750 ppm, carcinogenicity: A4 (ACGIH).

Re Toluene (CAS-no. 108-88-3): carcinogenicity: A4 (ACGIH); ceiling is 300 ppm, maximum peak is 500 ppm for a duration of 10 minutes (OSHA Table Z-2).

Re Ethanol (CAS no. 64-17-5): STEL is 1000 ppm; carcinogenicity: A3 (ACGIH).

8.3 Personal protection equipment (PPE)

Respiratory protection:

In case of long or strong exposure use a NIOSH approved respirator for: organic vapors . Alternatively use a positive pressure, air-supplied respirator.

Hand protection:

rubber gloves

Eye protection:

tight fitting chemical safety goggles

Other protective clothing or equipment:

protective clothing to cover exposed areas of arms, legs and torso . Recommendation: antistatic protective clothing and shoes .

8.4 General hygiene and protection measures:

Do not breathe dust/vapor/mist/gas/aerosol. Avoid contact with eyes and skin. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

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9. Physical and chemical properties

9.1 Appearance

Physical state / form: liquid
Colour: colourless
Odour: pleasant

9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range.....	< -50 °C (< -58 °F)	
Boiling point / boiling range.....	56 °C (132 °F) at 1013 hPa	
Flash point.....	-18 °C (-0 °F)	
Ignition temperature.....	540 °C (1,004 °F)	
Lower explosion limit (LEL).....	2.3 %(V)	
Upper explosion limit (UEL).....	13.0 %(V)	
Vapour pressure.....	233 hPa at 20 °C (68 °F)	
Density.....	approx. 0.90 g/cm ³ at 20 °C (68 °F)	(DIN 51757)
Water solubility / miscibility.....	900 g/l at 20 °C (68 °F)	
pH-Value.....	approx. 7	
Viscosity (dynamic).....	1 - 2 mPa.s at 25 °C (77 °F)	(DIN 51562)

9.3 Further information

Explosion limits for released ethanol: 3.5 - 15%(V).

Odour limit.....	no data available	
VOC.....	98 g/l	(calculated value)
VOC Released During Cure.....	67.5 g/l	(Estimated Value)
Thermal decomposition.....	not applicable	
Heating value.....	25.3 MJ/kg	

10. Stability and reactivity

10.1 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.2 Conditions to avoid

moisture . Heat, open flames, and other sources of ignition.

10.3 Materials to avoid

water , lyes , acids .

10.4 Hazardous decomposition products

By hydrolysis: ethanol . The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.5 Further information:

Hazardous polymerization cannot occur.

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

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Acute toxicity estimate (ATE):

ATE_{mix} (oral): > 2000 mg/kg

Data related to ingredients:

Toluene:

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD ₅₀ : 5580 mg/kg	rat	ECHA
dermal	LD ₅₀ : 12400 mg/kg	rabbit	ECHA
by inhalation (vapour)	LC ₅₀ : 28.1 mg/l; 4 h	rat	ECHA

Acetone:

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD ₅₀ : 5800 mg/kg	rat (female)	ECHA OECD 401
dermal	LD ₅₀ : > 15800 mg/kg	rabbit (male)	ECHA
dermal	LD ₅₀ : > 7426 mg/kg	guinea-pig (male)	ECHA
by inhalation (vapour)	LC ₅₀ : 132 mg/l = 55700 ppm; 3 h	rat (male)	ECHA
by inhalation (vapour)	LC ₅₀ : 76 mg/l; 4 h	rat (female)	ECHA

11.1.3 Skin corrosion/irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Toluene:

Result/Effect	Species/Test system	Source
irritating	rabbit	ECHA OECD 404

Acetone:

Result/Effect	Species/Test system	Source
not irritating	rabbit	ECHA

11.1.4 Serious eye damage / eye irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Toluene:

Result/Effect	Species/Test system	Source
not irritating	rabbit	ECHA OECD 405

Acetone:

Result/Effect	Species/Test system	Source
irritating	rabbit	ECHA OECD 405

11.1.5 Respiratory or skin sensitization

Assessment:

For this endpoint no toxicological test data is available for the whole product.

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Data related to ingredients:

Toluene:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligman	ECHA OECD 406

Acetone:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligman	ECHA

11.1.6 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Toluene:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) mouse lymphoma cells	ECHA OECD 476
negative	mutation assay (in vitro) bacterial cells	ECHA OECD 471
negative	chromosome aberration assay (in vivo) rat intraperitoneal; bone marrow cells	ECHA

Acetone:

Result/Effect	Species/Test system	Source
negative	chromosome aberration assay (in vitro) mammalian cells	ECHA OECD 473
negative	mutation assay (in vitro) bacterial cells	ECHA OECD 471
negative	mutation assay (in vitro) mouse lymphoma cells	ECHA OECD 476
negative	micro nucleus assay (in vivo) mouse (B6C3F1, both sexes) oral; erythrocytes	ECHA

11.1.7 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Acetone:

Animal tests have not revealed any carcinogenic effects.

11.1.8 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients

Toluene:

The substance can possibly impair the unborn child in humans.

Acetone:

Based on the available data the criteria for classification as toxic to reproduction are not fulfilled.

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11.1.9 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Toluene:

Route of exposure	Result/Effect	Source
by inhalation	Target organs: central nervous system Vapours may be narcotising.	ECHA

Acetone:

Vapours may be narcotising.

11.1.10 Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Toluene:

Target organs in animal experiments: Central nervous system.

Acetone:

Result/Effect	Species/Test system	Source
NOAEC: 45 mg/l	Subchronic study rat (male) by inhalation (vapour) 56 d; 5 d/w; 3 hours/day Follow-up observation period: 14 d	ECHA

11.1.11 Aspiration hazard

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data related to ingredients:

Toluene:

Product can pose an aspiration hazard.

11.1.12 Further toxicological information

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other information: May cause sensitization in contact with skin for susceptible individuals. Hydrolysis product / impurity: Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.

12. Ecological information

12.1 Toxicity

Assessment:

No data known.

Data related to ingredients:

Data derived for the product as a whole are of higher priority than data for single ingredients.

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Toluene:

Result/Effect	Species/Test system	Source
LC ₅₀ : 5.5 mg/l (measured)	dynamic Coho salmon (<i>Oncorhynchus kisutch</i>) (96 h)	ECHA
EC ₅₀ : 3.78 mg/l (measured)	semistatic Daphnia (48 h)	ECHA
EC ₅₀ (photosynthesis): 134 mg/l (nominal)	algae (3 h)	ECHA

Acetone:

Result/Effect	Species/Test system	Source
LC ₅₀ : 5540 mg/l (nominal)	static rainbow trout (<i>Oncorhynchus mykiss</i>) (96 h)	ECHA
EC ₅₀ : 8800 mg/l (nominal)	static Daphnia pulex (48 h)	ECHA
NOEC (biomass): 530 mg/l (nominal)	static Microcystis aeruginosa (8 d)	ECHA
EC ₂₀ (respiratory inhibition): > 1000 mg/l (nominal)	static sludge (30 min)	ECHA OECD 209
NOEC (reproduction): 2212 mg/l (nominal)	dynamic Daphnia magna (28 d)	ECHA OECD 211

12.2 Persistence and degradability

Assessment:

Silicone content: biologically not degradable. Elimination by adsorption to activated sludge. Organic solvent: readily biologically degradable.

Data related to ingredients:

Toluene:

Readily biodegradable.

Acetone:

Biodegradation:

Result	Test system/Method	Source
91 % / 28 d readily biodegradable	CO ₂ formation	ECHA OECD 301B

BOD₅/COD

Result	Source
BOD ₅ -Value: 1,850 mg O ₂ /g Substance	ECHA
COD-Value: 1,920 mg O ₂ /g Substance	ECHA
BOD ₅ /COD: 0.96	ECHA

12.3 Bioaccumulative potential

Assessment:

No data known.

12.4 Mobility in soil

Assessment:

No data known.

12.5 Other adverse effects

none known

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13. Disposal considerations

13.1 RCRA Waste Classification:

D001 (Ignitable)

This classification applies only to the material as it was originally produced.

13.2 Product disposal

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

13.3 Packaging disposal

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14. Transport information

14.1 US DOT & CANADA TDG SURFACE

Valuation : Dangerous Goods
Proper Shipping Name : Flammable liquid, n.o.s.
Technical name : (contains acetone and toluene)
Class : 3
UN no. : 1993
Packaging Group : II
Label : **TL:flammable liquid/3
NAERG Guide : 128

14.2 Transport by sea IMDG-Code

Valuation : Dangerous Goods
Class : 3
Packaging Group : II
UN no. : 1993
Proper Shipping Name : Flammable liquid, n.o.s.
Technical name : (contains acetone and toluene)
Marine Pollutant : no

14.3 Air transport ICAO-TI/IATA-DGR

Valuation : Dangerous Goods
Class : 3
UN no. : 1993
Proper Shipping Name : Flammable liquid, n.o.s.
Technical name : (contains acetone and toluene)
Packaging Group : II

15. Regulatory information

15.1 U.S. Federal regulations

TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

CERCLA Regulated Chemicals:

CAS No.	Chemical	RQ	Upper limit wt. %
67-64-1	Acetone	5,000 lbs	52.4279
108-88-3	Toluene	1,000 lbs	11.3356

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SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

Fire hazard. Immediate (acute) health hazard. Delayed (chronic) health hazard.

SARA 313 Chemicals:

CAS No.	Chemical	Upper limit wt. %
108-88-3	Toluene	11.3356

SARA 313 information included on this SDS should be included in all SDSs that are copied from and distributed for this material.

HAPS (Hazardous Air Pollutants):

CAS No.	Chemical	Upper limit wt. %
108-88-3	Toluene	11.3356
71-43-2	Benzene	0.0011

15.2 U.S. State regulations

California Proposition 65 Carcinogens:

71-43-2 Benzene

California Proposition 65 Reproductive Toxins:

108-88-3 Toluene

71-43-2 Benzene

Massachusetts Substance List:

67-64-1 Acetone

108-88-3 Toluene

78-10-4 Ethyl silicate

New Jersey Right-to-Know Hazardous Substance List:

67-64-1 Acetone

108-88-3 Toluene

78-10-4 Ethyl silicate

Pennsylvania Right-to-Know Hazardous Substance List:

67-64-1 Acetone

108-88-3 Toluene

78-10-4 Ethyl silicate

15.3 Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea).....	ECL (Existing Chemicals List): This product is listed in, or complies with, the substance inventory.
Japan.....	ENCS (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
Australia	AICS (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
People's Republic of China	IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada.....	DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA)	TSCA (Toxic Substance Control Act Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory.
Taiwan (Republic of China).....	TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: Taiwan REACH requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

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16. Other information

16.1 Additional information:

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists
DOT - Department of Transportation
hPa - Hectopascals
mPa*s - Milli Pascal-Seconds
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit

ppm - Parts per Million
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
WHMIS - Canadian Workplace Hazardous Materials Identification System

Flash point determination methods	Common name
ASTM D56.....	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592.....	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719.....	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679.....	Setaflash or Rapid closed cup
DIN 51755.....	Abel-Pensky closed cup

16.3 Conversion table:

Pressure:.....: 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa
Viscosity:.....: 1 mPa*s = 1 centipoise (cP)