



SAFETY DATA SHEET

CSR-1300

Section 1. Identification

GHS product identifier : CSR-1300
Other means of identification : Hydrophilic Gel

Relevant identified uses of the substance or mixture and uses advised against

Supplier's details : Concrete Sealants, Inc.
9325 St. Rte. 201
Tipp City, Ohio 45371
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Emergency telephone number (with hours of operation) : 937-845-8776 or 800-332-7325
(6am to 5pm EST)

Section 2. Hazards Identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Acute Toxicity-Catergory-2
Skin irritation- Catergory-3
Eye irritation-Catergory-2
Skin sensitivity- Catergory-1
Respiratory sensitivity-Catergory-1
Carcinogenicity- Catergory-2
Respiratory sensitivity-Catergory-1B
Aquatic Chronic -Catergory-2

GHS label elements



Signal word : **DANGER**

Hazard statements : Fatal if inhaled. Causes mild skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms of breathing difficulties if inhaled. Suspected of causing cancer. May damage the unborn child. Suspected of damaging fertility. Toxic to aquatic life with long lasting effects.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Section 2. Hazards Identification

- Prevention** : Obtain special instructions before use. Do not handle until all safety precaution s have been read and understood. Avoid breathing dust/ fumes/ gas/ mist/ vapors/ sprays. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the work place. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. Wear respiratory protection.
- Response** : **IF ON SKIN:** Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing. If exposed or concerned: Get medical attention. Immediately call a POISON CENTER or doctor. Specific treatment is urgent (see information on this label). If skin irritation or rash occurs: Get medical advice. If eye irritation persists: Get medical attention. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. Wash contaminated clothing before reuse. Collect spillage.
- Storage** : Store in a well- ventilated place. Keep container tightly closed. Store locked up.
- Disposal** : Dispose of contents/ container in accordance with local/ national regulations.
- Hazards not otherwise classified** : None known

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available
- CAS number/other identifiers**
- CAS number** : Not applicable
- Product code** : Not available

Ingredient name	%	CAS number
Urethane Prepolymer	50-75	0053426-99-6
2-(2-Ethoxyethoxy)ethyl acetate	10-25	0000112-15-2
Maleic acid, Dibutyl ester	1.0-10	0000105-76-0
Benzenedicarboxylic acid, butyl phenylmethyl ester	1.0-10	0000085-68-7
Toluene di-isocyanate	1.0-10	0026471-62-5

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.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Irrigate copiously with clean water for at least 15 minutes, holding eyelids apart and seek medical attention.
- Inhalation** : Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Skin contact** : Immediately take off all contaminated clothing. For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

Section 4. First aid measures

Ingestion : If swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Irritating to eyes.

Inhalation : Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system. The one onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of TDI may develop in sensitized persons. Sensitized persons should not be exposed to any mixture containing unreacted TDI.

Skin contact : May cause skin irritation; potential sensitizer.

Ingestion : Swallowing small amounts of this material during normal handling is unlikely and is not likely to cause harmful effects. Swallowing large amounts may be harmful

Over-exposure signs/symptoms

Eye contact : Causes serious eye irritation.

Inhalation : Fatal if inhaled. May cause allergy or asthma symptoms of breathing difficulties if inhaled.

Skin contact : May cause an allergic skin reaction. Causes mild skin irritation. (Not adopted by US OSHA)

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : None known

Protection of first-aiders : None known

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media : Water spray, dry chemical, alcohol foam, carbon dioxide.

Unsuitable extinguishing media : None known

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition materials may include the following materials:
carbon dioxide
carbon monoxide
oxides of nitrogen. Avoid breathing dust / fumes/ gas/ mist/ vapors/ spray.

Special protective actions for firefighters : No special measures are required.

Special protective equipment for firefighters : Firefighters 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. 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** : Do not allow spills to enter drains or waterways. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using the toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and materials for contaminant and cleaning up

- Spill** : **FOR MAJOR SPILLS CALL CHEMTREC (800-424-9300).**
Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including appropriate respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Avoid breathing aerosols, mists and vapors. Avoid contact with skin and eyes. Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage.
- Conditions for safe storage, including any incompatibilities** : Handle containers carefully to prevent damage and spillage. Incompatible materials: Water, amines, strong bases, alcohols, metal compounds and surface-active materials.

Section 8. Exposure Controls / Personal Protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Benzenedicarboxylic acid, butyl phenylmethyl ester	OSHA –No Established Limit ACGIH –No Established Limit NIOSH – No Established Limit
Maleic acid, Dibutyl ester	OSHA – No Established Limit ACGIH – No Established Limit NIOSH – No Established Limit
2-(2-Ethoxyethoxy)ethyl acetate	OSHA – No Established Limit ACGIH – No Established Limit NIOSH – No Established Limit
Toluene di-isocyanate	OSHA – No Established Limit ACGIH – No Established Limit NIOSH – No Established Limit
Urethane Prepolymer	OSHA – No Established Limit ACGIH – No Established Limit NIOSH – No Established Limit

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Section 8. Exposure Controls / Personal Protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : Appropriate techniques should be used to remove potentially contaminated clothing. IF ON SKIN (or hair): Wash contaminated clothing before reuse.

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, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Protective clothing should be selected. Gloves- neoprene, nitrile rubber, butyl rubber. Thin latex disposable gloves should be avoided for repeated or long-term use

Body protection :

Other skin protection : .

Respiratory protection : When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required.

Section 9. Physical and Chemical Properties

Appearance

Physical state : Liquid

Color : Amber

Odor : Not available

Odor threshold : Not available

pH : Not available

Melting point : Not available

Boiling point : Not available

Flash point : approximately 107°C Pensky Martin Closed Cup

Burning time : Not available

Burning rate : Not available

Evaporation rate : Not available

Flammability (solid, gas) : Not available

Lower and upper explosive (flammable) limits : Not available

Vapor pressure : 180 mmHg @268°F

Vapor density : Not available

Relative density : Not available

Solubility : Not available

Solubility in water : Insoluble; reacts to water

Partition coefficient n-octanol/water : Not available

Auto-ignition temperature : Not available

Decomposition temperature : Not available

SADT : Not available

Section 9. Physical and Chemical Properties

Viscosity : Not available

Section 10. Stability and Reactivity

Reactivity : Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines and metal compounds.

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 : No specific data.

Incompatible materials : Water, amines, strong bases, alcohols, metal compounds and surface-active materials.

Hazardous decomposition products : High heat and fire may produce carbon dioxide, carbon monoxide, and oxides of nitrogen.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Urethane Prepolymer	-	-	-	-
2-(2-Ethoxyethoxy)ethyl acetate	LD50 ORAL LD50 Dermal	Rat Rabbit	11,000 mg/kg 15,281 mg/kg	- -
Maleic acid, Dibutyl ester	-	-	-	-
Benzenedicarboxylic acid, butyl phenylmethyl ester	-	-	-	-
Toluene di-isocyanate	LD50 ORAL LC50 Inhalation Vapor LC50 inhalation Gas	Rat Rat Rat	3,360 mg/kg .35 mg/L 13.90 ppm	- 4 hours -

Irritation/Corrosion

There is no data available

Sensitization

Skin : There is no data available

Respiratory : There is no data available

Mutagenicity

There is no data available

Carcinogenicity

There is no data available

Reproductive toxicity

There is no data available

Teratogenicity

There is no data available

Specific target organ toxicity (single exposure)

There is no data available

Specific target organ toxicity (repeated exposure)

There is no data available

Section 11. Toxicological Information

Aspiration hazard

There is no data available

Information on the likely routes of exposure : Not available

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

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.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available

Section 12. Ecological Information

Toxicity

Product/ingredient name	Result	Species	Exposure
Toluene di-isocyanate	LC50	Fish-Oncorhynchus mykiss 133.00 mg/l	96 hours
	EC50	Crustacean -DAPHNIA MAGNA 12.50 mg/l	48 hours
	ErC50	Algae- Skeletonema costatum 3,230 mg/l	96 hours

Persistence and degradability

There is no data available

Section 12. Ecological Information

Bioaccumulative potential

There is no data available

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available

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

Section 13. Disposal Considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

	DOT Classification	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	Yes. Marine pollutant: Benzenedicarboxylic acid, butyl phenylmethyl ester	No.
Additional information	-	-	-

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 to Annex II of MARPOL 73/78 and the IBC Code : Not available

Section 15. Regulatory Information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
United States inventory (TSCA 8b): All components are listed or exempt.

Section 15. Regulatory Information

Clean Air Act Section 112 : Listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals : Not listed

(Precursor Chemicals)

DEA List II Chemicals : Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
No products were found						

SARA 304 RQ : Not applicable

SARA 311/312

Classification : Not applicable

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Benzenedicarboxylic acid, butyl phenylmethyl ester	100	No.	No.	No.	Yes.	Yes.
Toluene di-isocyanate	100	No.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R – Reporting requirements	2-(2-Ethoxyethoxy)ethyl acetate Toluene di-isocyanate	0000112-15-2 0026471-62-5	
Supplier notification			

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 :

New York :

New Jersey : The following components are listed: Benzenedicarboxylic acid, butyl phenylmethyl ester; Toluene di-isocyanate

Pennsylvania : The following components are listed : Benzenedicarboxylic acid, butyl phenylmethyl ester; Toluene di-isocyanate

California Prop. 65

Warning! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 15. Regulatory Information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene di-isocyanate	Yes	No		
Benzenedicarboxylic acid, butyl phenylmethyl ester	No	Yes		

International regulations

- International lists** : **Australia inventory (AICS)**: Not determined.
China inventory (IECSC): Not determined.
Japan inventory: Not determined.
Korea inventory: Not determined.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan inventory (CSNN): Not determined.
- Chemical Weapons Convention List Schedule I Chemicals** : Not listed
- Chemical Weapons Convention List Schedule II Chemicals** : Not listed
- Chemical Weapons Convention List Schedule III Chemicals** : Not listed

Section 16. Other Information

History

- Date of issue mm/dd/yyyy** : 06/01/2015
- Version** : 1
- Revised sections** : Not applicable
- Prepared by** : Concrete Sealants, Inc.
- 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 = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships
1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

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