



SAFETY DATA SHEET

1. Identification

Product identifier Rapid Set TXP Epoxy Primer Part A

Other means of identification

Product code 183040000

Recommended use Industrial use.

Recommended restrictions Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Company name CTS Cement Manufacturing Corporation

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Cypress, CA 90630
United States

Telephone 1-800-929-3030

E-mail info@ctscement.com

Contact person Safety Officer

Emergency telephone number 1-800-929-3030 (8 AM - 5 PM)

2. Hazard(s) identification

Physical hazards Not classified.

Health Hazards

Skin Irritant	Category 2
Eye Irritant	Category 2
Skin Sensitizer	Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Precautionary statement

Prevention	Avoid breathing mist/vapors/spray. Wear protective gloves/eye protection. Avoid release to environment. Wash thoroughly after handling.
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Additional Information Contains epoxy constituents. May produce and allergic reaction.

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/information on ingredients

Mixture

Description: Mixture of substances listed below with nonhazardous additions

Chemical name	CAS number	%
Reaction Product: bisphenol – A – (epichlorohydrin) epoxy resin (number average molecular weight $\leq$ 700)	25068-38-6	20-30
Silicon Dioxide	14808-60-7	10-20
Neopentyl glycol diglycidyl ether	17557-23-2	5-10
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	< 3

4. First-aid measures

Inhalation	Remove the affected person immediately to fresh air. Call a doctor in case of complaints.
Skin contact	Immediately rinse with water. If skin irritation occurs: consult a doctor.
Eye contact	Remove contact lenses, if present and easy to do. Rinse opened yet for several minutes under running water. If symptoms persist, consult a doctor.
Ingestion	Immediately rinse mouth and drink plenty of water. Do not induce vomiting; call for medical help immediately.
Most important symptoms/effects, acute and delayed	Allergic reactions. Nausea. Coughing. Gastric or intestinal disorders. Irritant to skin and mucous membranes. Irritant to eyes.
Indication of immediate medical attention and special treatment needed	Contains reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight $\leq$ 700). May produce an allergic reaction. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. Medical supervision for at least 48 hours.
General information	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation is recommended for at least 48 hours after accident.

5. Fire-fighting measures

Suitable extinguishing media	Water haze or fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water with full jet or water spray.
Specific hazards arising from the chemical	Formation of toxic gases is possible during heating or in case of fire.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Additional Information	Cool endangered receptacles with water fog or haze. Eliminate all ignition sources if safe to do so.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Ensure adequate ventilation. Keep away from ignition sources. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Absorb liquid components with liquid-binding material. Send for recovery or disposal in suitable receptacles. Ensure adequate ventilation.
Dispose contaminated material as waste according to item 13.

Environmental precautions

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Prevent from spreading (e.g. by damming-in or oil barriers).

7. Handling and storage

Precautions for safe handling

Use only in well-ventilated areas. Store in a cool, dry place in tightly closed receptacles (60-80°F recommended).

Conditions for safe storage, including any incompatibilities

Use only receptacles specifically permitted for this substance/product. Keep container tightly sealed. Store in an area with adequate ventilation. Store away from extreme heat, ignition sources, open flame, or incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Control Parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

No further relevant information available.

PNECs

No further relevant information available.

Additional information

The lists valid during the making were used as basis.

Appropriate engineering controls

Provide readily accessible eye wash stations and safety showers.
Provide ventilation adequate to ensure concentrations are minimized.

Individual protection measures, such as personal protective equipment

Eyeface protection

Wear safety glasses with side shields or safety goggles. Contact lenses should not be worn.

Skin protection

Hand protection

Protective, impervious gloves. (Neoprene, PVC, Nitrile rubber). The glove material has to be impermeable and resistant to the product / the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Other

Wear protective work clothing. Where potential exposure warrants, rubber or plastic boots and chemically resistant protective suit.

Respiratory protection

Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable. Use respiratory protection when grinding or cutting material.

General hygiene considerations

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

9. Physical and chemical properties

Appearance

Form	Viscous Liquid
Color	White
Odor	Sweet
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	> 392°F / > 200°C

Flash point	> 302°F / > 150°C
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available
Flammability limit - upper (%)	Not available

Vapor pressure	Not available
Vapor density	Not available
Relative density	2.12 @ 20°C
Solubility(ies)	
Solubility (water)	Not miscible or difficult to mix
Partition coefficient (n-octanol/water)	Not available

Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	12,000 – 20,000 cps

10. Stability and reactivity

Reactivity

Chemical stability

Possibility of hazardous reactions	Reacts with strong alkali. Exothermic polymerization. Reacts with strong acids and oxidizing agents. Reacts with catalysts.
Thermal Decomposition	No decomposition if used and stored according to specifications.

Conditions to avoid	Avoid contact with strong oxidizing agents, excessive heat or flames.
Incompatible materials	Strong acids, bases and oxidizing agents.
Hazardous Decomposition products	Carbon monoxide and carbon dioxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause respiratory irritation.
Skin contact	May causes skin irritation.
Eye contact	May cause eye irritation.

Ingestion	No data.	
Symptoms related to the physical, chemical and toxicological characteristics	No available data.	
Delayed and immediate effects as well as chronic effects from short and long-term exposure		
(Data for primary hazardous component: Reaction product: bisphenol - A- (epichlorohydrin) epoxy resin)		
Acute toxicity	Oral	LD50 > 2,000 mg/kg (rat)
	Dermal	LD50 > 2,000 mg/kg (rat)
	Inhalation	No data
Skin corrosion/irritation	Test material was slightly irritating to skin in key studies. For the skin, mean erythema and edema scores were 0.8 and 0.5 respectively.	
Serious eye damage/ eye irritation	Test material was slightly irritating to the eye in key studies. The mean eye score was 0.4	
Respiratory or skin sensitization		
Respiratory sensitization	No data available.	
Skin sensitization	In a local lymph node assay, the concentration that would cause a 3-fold increase in proliferation (EC-3) was calculated to be 5.7% which is consistent with moderate dermal sensitization potential.	
Numerical measures of toxicity	No data available for mixture.	
Additional toxicological information	The product show the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant Danger through skin absorption. Toxic and /or corrosive effects may be delayed up to 24 hours. Inhalation of concentrated vapours as well as oral intake will lead to anesthesia-like conditions and headache, dizziness etc.	

12. Ecological information

(Data for primary hazardous component: Reaction product: bisphenol - A- (epichlorohydrin) epoxy resin)

Aquatic Toxicity	Fish	96hr-LC50 = 3.6mg/L test mat. <i>Oncorhynchus mykiss</i> (direct application, nominal) (OECD Guideline 203) LC50 1.41 mg/L 96hr <i>Oryzias latipes</i>
	Crustacea	48hr-EC50 = 2.8mg/L test mat <i>Daphnia magna</i> (direct application, nominal, based on: mobility) (OECD Guideline 202) EC50 1.7mg/L 48hr
	Aquatic Plant	72hr-EC50 > 11 mg/L <i>Scenedesmus capricornutum</i> . Water soluble fraction (meas. (arithm. mean)) based on: growth rate (EPA-660/3-75-009)
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No further relevant information available.	
Results of PBT and vPvB assessment		
PBT:	Not applicable	
vPvB:	Not applicable	

13. Disposal considerations

Waste from residues / unused products This product should not be allowed to enter drains, water courses or the soil. Dispose of this material in a safe manner and in accordance with federal, state and local regulations

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

TSCA (Toxic Substances Control Act)

All the ingredients are listed.

SARA 355 Extremely hazardous substance

None of the ingredients are listed.

SARA 313 (Specific toxic chemical listings)

Component(s) above 'de minimus' level: None

US state regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Chemicals known to cause cancer: Silicon dioxide (CAS 14808-60-7) (dispersed in liquid medium; not in a respirable form)

International Inventories

Canadian Domestic Substances List (DSL)

All ingredients are listed

Canadian Ingredient Disclosure List (limit 0.1%)

None of the ingredients are listed

Canadian Ingredient Disclosure List (limit 1%)

None of the ingredients are listed

Chemical Safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information, including date of preparation or last revision

Issue date 29-May-2015

Revision date -

Version # 01

HMIS Rating:

Health: 2

Flammability: 1

Physical Hazard: 0

Disclaimer CTS Cement Manufacturing Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.