

## SAFETY DATA SHEET



Date issued : 02/13/2014  
 SDS number : TC-1570 PART A  
 Date revised : 06/06/2022  
 Revision number : 3

## TC-1570 PART A

## 1. Identification

**Product identifier:** TC-1570 PART A

**Relevant identified uses:** Epoxy resin

**Manufacturer / Supplier**

BJB Enterprises, Inc.  
 14791 Franklin Avenue  
 Tustin, CA 92780  
**Emergency Phone:** (714) 734-8450

**Emergency telephone number (24 hour)**

**CHEMTREC (USA & Canada):** (800) 424-9300  
 or (703) 527-3887 CCN# 2820

## 2. Hazard identification

**Classification of the substance or mixture**

**Health hazards:**

Skin Irritation, Category 2  
 Serious Eye Damage, Category 1  
 Skin Sensitization, Category 1

**Environmental hazards:**

Chronic Hazards to the Aquatic Environment, Category 2

**Label elements**



Corrosion



Exclamation  
mark



Environment

**Signal word:** DANGER

**Hazard statement(s)**

H315: Causes skin irritation.  
 H318: Causes serious eye damage.  
 H317: May cause an allergic skin reaction.  
 H411: Toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

**Prevention:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264: Wash thoroughly after handling.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P273: Avoid release to the environment.

**Response:**

P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310: Immediately call a POISON CENTER/doctor/physician.

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P391: Collect spillage.

**Disposal:**

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**3. Composition/information on ingredients**

Chemical name	% w/w	CAS No.
Barium sulfate	40 - 70	7727-43-7
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	10 - 30	1675-54-3
Titanium dioxide (TiO <sub>2</sub> )	3 - 7	13463-67-7
Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis-	1 - 5	2425-79-8

**4. First-aid measures**

**Eye:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical advice/attention.

**Skin:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical advice/attention if irritation or rash develops. Wash clothing before reuse.

**Ingestion:** If swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical attention.

**Indication of immediate medical attention and special treatment needed, if necessary:** Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

**5. Fire-fighting measures**

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

**Hazardous combustion products:** Carbon monoxide and carbon dioxide.

**Fire fighting procedures:** Cool fire exposed containers with water spray. Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

**Fire fighting equipment:** Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.

**6. Accidental release measures**

**Small spill:** Evacuate unnecessary personnel from the spill area. Wear necessary personal protective equipment (PPE) as specified in the SDS or the site emergency response plan. Eliminate all sources of ignition. Ensure adequate ventilation. Dike and contain spill. Prevent product from entering drains or waterways. Absorb with non-combustible material (such as sand, earth, diatomaceous earth, or vermiculite) and transfer to a container for disposal according to local/national regulations.

**Environmental precautions**

**Water spill:** Do not discharge into drains, surface waters, or groundwater.

**General procedures:** Refer to section 8 of SDS for personal protection details.

**Release notes:** Composition and extent of any spill should be evaluated against local regulations and reported to the proper agencies, if necessary.

**7. Handling and storage**

**General procedures:** Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors.

**Precautions for safe handling:** Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

**Conditions for safe storage:** Store in a dry and well-ventilated place, away from excessive heat, in original or similar container. Avoid unnecessary contact. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials.

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**Storage temperature:** 65-80°F (18-27°C)

**Shelf life:** 12 months from date of shipment under manufacturers recommended storage conditions.

## 8. Exposure controls/personal protection

### Exposure controls

Control parameters				
Chemical name	Occupational exposure limit values			
	Type		ppm	mg/m <sup>3</sup>
Barium sulfate	OSHA PEL	TWA	- <sup>[1]</sup>	15T 5R <sup>[1]</sup>
		STEL	-	-
	ACGIH TLV	TWA	-	10
		STEL	-	-
	NIOSH IDLH	TWA	- <sup>[1]</sup>	10T 5R <sup>[1]</sup>
		STEL	-	-
Titanium dioxide (TiO <sub>2</sub> )	OSHA PEL	TWA	- <sup>[2]</sup>	15 <sup>[2]</sup>
	ACGIH TLV	TWA	-	10

**Footnotes:**

1. T = Total dust, R = Respirable fraction
2. Total dust

**Appropriate engineering controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye / face protection:** Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

**Skin protection - hand protection:** Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or coveralls should be used to prevent contact with eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

**Respiratory protection:** Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

**Skin protection - other:** Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.

**Occupational hygiene practices:** Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

**Other use precautions:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

## 9. Physical and chemical properties

**Physical state:** Paste-Like

**Color:** White

**Odor:** Slight

**pH:** No data available

**Initial boiling point and boiling range:** No data available

**Flash point:** > 200°C (392°F) Pensky-Martens CC

**Vapor pressure:** No data available

**Relative vapor density:** No data available

**TC-1570 PART A****Relative density:** 2.1 (water=1) at 25°C (77°F)**Solubility:** Insoluble**Dynamic viscosity:** 160000 Centipoise at 25°C (77°F)**VOC content:** Nil**10. Stability and reactivity****Reactivity:** Hazardous reactions will not occur under normal transport or storage conditions.**Chemical stability:** This product is stable under normal ambient conditions of temperature and pressure.**Conditions to avoid:** No data available**Possibility of hazardous reactions:** No data available**Hazardous decomposition products:** Carbon monoxide and carbon dioxide.**Incompatible materials:** Oxidizing agents**11. Toxicological information****Acute toxicity**

Chemical name	LD <sub>50</sub> (oral) mg/kg(rat)	LD <sub>50</sub> (dermal) mg/kg(rabbit)	LC <sub>50</sub> (inhalation) mg/l
Barium sulfate	No data available	No data available	No data available
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	> 5000 mg/kg Rat	> 2000 mg/kg Rabbit	13.04 mg/l Rat (4 h)
Titanium dioxide (TiO <sub>2</sub> )	> 10000 mg/kg Rat	No data available	> 6.82 mg/l Rat (4 h)
Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis-	1410 mg/kg Rat	> 2150 mg/kg Rabbit	No data available

**Skin corrosion / irritation:** Causes skin irritation.**Serious eye damage / irritation:** Causes serious eye damage.**Respiratory or skin sensitization:** May cause sensitization by skin contact.**Germ cell mutagenicity:** No data available**Carcinogenicity**

Chemical name	IARC
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	3
Titanium dioxide (TiO <sub>2</sub> )	2B

**Reproductive toxicity:** No data available**Specific Target Organ Toxicity - single exposure:** No data available**Specific Target Organ Toxicity - repeated exposure:** No data available**Aspiration hazard:** No data available**12. Ecological information****Ecotoxicological information:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release to the environment.**Persistence and degradability:** No data available**Bioaccumulative potential:** No data available**Other adverse effects:** This product may cause risk of hazardous effects to the environment.**Mobility in soil:** No data available**13. Disposal considerations****Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some

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product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protections and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**14. Transport information****USA Department of Transport Regulations (DOT)**

**UN proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (**See Note**)

**Technical name:** Bisphenol A epoxy resin

**UN number:** UN3082

**Transport hazard class(es):** 9

**Packing group:** III

**NAERG:** 171

**Hazard label:** Class 9 (miscellaneous hazardous materials)

**Environmental hazards - marine pollutant:** Yes

**DOT other shipping information:** Only regulated for bulk and vessel shipments, per 49CFR171.4 (c) Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car, or aircraft.

**ICAO / IATA - air**

**UN proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (**See Note**)

**Technical name:** Bisphenol A epoxy resin

**UN number:** UN3082

**Transport hazard class(es):** 9

**Packing group:** III

**ERG:** 9L

**Hazard label:** Class 9 (miscellaneous hazardous materials)

**Note:** Only regulated for bulk and vessel shipments, per 49CFR171.4 (c) Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car, or aircraft.

**IMO / IMDG - sea**

**UN proper shipping name:** Environmentally hazardous substance, liquid, n.o.s.

**Technical name:** Bisphenol A epoxy resin

**UN number:** UN3082

**Transport hazard class(es):** 9

**Packing group:** III

**EmS:** F-A, S-F

**Environmental hazards - marine pollutant:** Yes

**Hazard label:** Class 9 (miscellaneous hazardous materials)

**15. Regulatory information****UNITED STATES****SARA Section 311/312 Hazard Categories**

**311/312 Health hazards:** Refer to Section 2 for hazard classification.

**313 reportable ingredients:** This product does not contain any substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**CERCLA Hazardous Substances and Reportable Quantities (RQ)**

**CERCLA regulatory:** This product does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

**TC-1570 PART A****TSCA (The Toxic Substances Control Act)**

**TSCA regulatory:** This product does not contain any substances subject to TSCA Section 12(b) export notification.


**TSCA Status:** This product or its components are listed in or exempt from the TSCA inventory requirements.

**CAA 112(b) Hazardous Air Pollutants**

Chemical name	% w/w	CAS No.
Epichlorohydrin	-	106-89-8

**Occupational safety and health administration (osha)**

**29 cfr1910.119---process safety management of highly hazardous chemicals:** None of the chemicals in this product are considered highly hazardous by OSHA.

**California Proposition 65:**  **WARNING:** This product can expose you to chemicals including [see table below], which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Chemical name	% w/w	Listed
Titanium dioxide (TiO <sub>2</sub> )	3 - 7	<ul style="list-style-type: none"> <li>● Cancer</li> </ul>
Epichlorohydrin	-	<ul style="list-style-type: none"> <li>● Cancer</li> <li>● Male Reproductive</li> </ul>

**USA OSHA Hazard Communication Standard (29CFR 1910.1200):** The contents of the SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**CANADA**

**WHMIS Regulatory Status:** This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):** All components in this product are listed in or exempted from the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

**16. Other information**

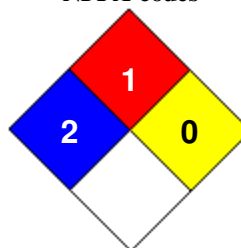
**Reason for issue:** Revision

**Date revised:** 06/06/2022

**Revision summary:** This SDS replaces the 02/13/2020 SDS.

**HMIS rating**

Health	*	2
Flammability		1
Physical hazard		0
Personal protection	X	

**NFPA codes**

**HMIS ratings notes:** Personal Protection: See Section 8

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