



SAFETY DATA SHEET

Date issued : 08/31/2011
 SDS number : TC-1614 PART A
 Date revised : 04/12/2024
 Revision number : 5

TC-1614 PART A

1. Identification

Product identifier: TC-1614 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
 Eye Irritation, Category 2A
 Skin Sensitization, Category 1
 Target Organ Toxicity (Repeated exposure), Category 2

Physical hazards:

Flammable Liquids, Category 3

Label elements



Flame



Health hazard



Exclamation
mark

Signal word: WARNING

Hazard statement(s)

H226: Flammable liquid and vapour.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H317: May cause an allergic skin reaction.
 H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P240: Ground and bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting/material-handling equipment.
 P242: Use non-sparking tools.
 P243: Take action to prevent static discharges.
 P260: Do not breathe 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.

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P370+P378: In case of fire: Use water spray, carbon dioxide, dry chemical, or foam for extinction.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing 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.

P337+P313: If eye irritation persists: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

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.
Butyl 2,3-epoxypropyl ether	80 - 100	28064-14-4
1,4-Cyclohexanedimethanol diglycidyl ether	5 - 10	14228-73-0
Xylene	5 - 10	1330-20-7
Ethylbenzene	1 - 5	100-41-4

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. 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

General hazard: Flammable

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

Hazardous combustion products: Carbon monoxide, carbon dioxide, aldehydes, and phenolics.

Explosion hazards: Keep away from heat, sparks, and open flame. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

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.

Sensitivity to static discharge: This material can accumulate static charges which can cause an incendiary electrical discharge.

6. Accidental release measures

Small spill: Eliminate sources of ignition. Evacuate the area. Clean-up should only be performed by trained personnel. People dealing with a major spill should wear full protective clothing including appropriate respiratory protection. Prevent product spill from entering sewers or waterways. Neutralize small spills with a decontaminant.

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Large spill: Contain and absorb large spills onto an inert, non-flammable adsorbent carrier (such as earth or sand). Do not use combustible materials such as saw dust. Use only spark resistant and explosion proof recovery devices. Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spill area clean with a liquid decontaminant. Remove and properly dispose of residues. Notify applicable government authorities if release is reportable. (See CERCLA in Section 15).

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: Keep away from sources of ignition. 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 in a well ventilated area. Avoid heat, sparks, and open flames. Avoid breathing vapor and contact with eyes, skin, and clothing. Use appropriate personal protective equipment as specified in Section 8. 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 the original or similar container. Avoid sources of ignition and incompatible materials. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials. Avoid unnecessary contact.

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

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

Electrostatic accumulation hazard: This material can accumulate static charges which can cause an incendiary electrical discharge.

8. Exposure controls/personal protection**Exposure controls**

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m ³
Xylene	OSHA PEL	TWA	100	435
		STEL	-	-
	ACGIH TLV	TWA	100	-
		STEL	150	-
	NIOSH REL	TWA	100	435
		STEL	150	655
Ethylbenzene	OSHA PEL	TWA	100	435
		STEL	-	-
	ACGIH TLV	TWA	20	-
		STEL	-	-
	NIOSH REL	TWA	100	435
		STEL	125	545

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

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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: Liquid

Appearance: Clear

Color: Colorless

Odor: Slight solvent

pH: No data available

Initial boiling point and boiling range: No data available

Flash point: 41.1°C (106°F) Pinsky-Martens CC

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: 1.13 (water=1) at 25°C (77°F)

Solubility: Negligible

Dynamic viscosity: 550 Centipoise at 25°C (77°F)

Percent volatiles: 9.2

VOC content: < 104 g/l Calculated. Theoretical VOC minus water and exempt solvents.

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: High temperatures and sources of ignition.

Possibility of hazardous reactions: No data available

Hazardous decomposition products: Carbon monoxide, carbon dioxide, aldehydes, and phenolics.

Incompatible materials: Strong oxidizing agents, strong acids, and strong bases.

11. Toxicological information**Acute toxicity**

Chemical name	LD ₅₀ (oral) mg/kg(rat)	LD ₅₀ (dermal) mg/kg(rabbit)	LC ₅₀ (inhalation) mg/l
Butyl 2,3-epoxypropyl ether	> 2000 mg/kg Rat	> 2000 mg/kg Rabbit	No data available
1,4-Cyclohexanedimethanol diglycidyl ether	2450 mg/kg Rat	2500 mg/kg Rabbit	No data available
Xylene	3523 mg/kg Rat	12126 mg/kg Rabbit	5000 ppm Rat (4 h)
Ethylbenzene	3500 mg/kg Rat	15433 mg/kg Rabbit	No data available

Skin corrosion / irritation: Causes skin irritation.

Serious eye damage / irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause sensitization by skin contact.

Germ cell mutagenicity: No data available

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Chemical name	IARC
Xylene	3
Ethylbenzene	2B

Reproductive toxicity: No data available

Specific Target Organ Toxicity - single exposure: No data available

Specific Target Organ Toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: No data available

12. Ecological information

Ecotoxicological information: No specific ecological data are available for this product. Refer to Section 6 for information regarding accidental release and Section 15 for regulatory reporting information.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Environmental data: No data available

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 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.

Empty container: Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

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

UN proper shipping name: Flammable liquids, n.o.s.

Technical name: (xylene solution)

UN number: UN1993

Transport hazard class(es): 3

Packing group: III

NAERG: 128

Hazard label: Flammable liquid

ICAO / IATA - air

UN proper shipping name: Flammable liquid, n.o.s.

Technical name: (xylene solution)

UN number: UN1993

Transport hazard class(es): 3

Packing group: III

ERG: 3L

Hazard label: Flammable liquid

IMO / IMDG - sea


UN proper shipping name: Flammable liquid, n.o.s.

TC-1614 PART A**Technical name:** (xylene solution)**UN number:** UN1993**Transport hazard class(es):** 3**Packing group:** III**Hazard label:** Flammable liquid**Special provisions:** EmS: F-E, S-E**15. Regulatory information****UNITED STATES****SARA Section 311/312 Hazard Categories****311/312 Health hazards:** Acute Health Hazard, Chronic Health Hazard, Fire Hazard**313 reportable ingredients:** This product contains the following 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:**EPCRA Section 313 Toxic Chemicals**

Chemical name	% w/w	CAS No.
Xylene	5 - 10	1330-20-7
Ethylbenzene	1 - 5	100-41-4

CERCLA regulatory: This product contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).**CERCLA Hazardous Substances and Reportable Quantities (RQ)**

Chemical name	% w/w	CERCLA rq
Xylene	5 - 10	100 lbs.
Ethylbenzene	1 - 5	1,000 lbs.

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.**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.

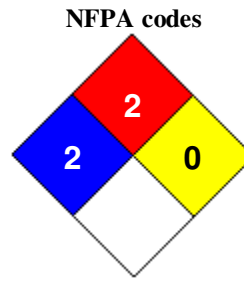
Chemical name	% w/w	Listed
Ethylbenzene	1 - 5	● Cancer
Toluene	< 0.1	● Developmental Toxicity

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:** 04/12/2024

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Revision summary: This SDS replaces the 09/29/2020 SDS.

HMIS rating		
Health	*	2
Flammability		2
Physical hazard		0
Personal protection	X	



HMIS ratings notes: Personal Protection: See Section 8

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