

## SAFETY DATA SHEET



Date issued : 07/31/2008  
 SDS number : TC-878 PART A  
 Date revised : 05/26/2022  
 Revision number : 4

## TC-878 PART A

## 1. Identification

**Product identifier:** TC-878 PART A

**Relevant identified uses:** Polyurethane 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:**

Acute Toxicity (Inhalation), Category 4  
 Skin Irritation, Category 2  
 Eye Irritation, Category 2A  
 Respiratory Sensitization, Category 1  
 Skin Sensitization, Category 1  
 Target Organ Toxicity (Single exposure), Category 3

**Label elements**

Exclamation  
 mark



Health hazard

**Signal word:** DANGER

**Hazard statement(s)**

H332: Harmful if inhaled.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317: May cause an allergic skin reaction.  
 H335: May cause respiratory irritation.

**Precautionary statement(s)****Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
 P271: Use only outdoors or in a well-ventilated area.  
 P284: In case of inadequate ventilation wear respiratory protection.  
 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.

**Response:**

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P310: Immediately call a POISON CENTER/doctor/physician.

**TC-878 PART A**

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.

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

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

**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.
Cycloaliphatic polymer	40 - 80	Proprietary
Dicyclohexylmethane-4,4'-diisocyanate	20 - 30	5124-30-1
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	10 - 15	25723-16-4
Phenyl mercury acetate	< 0.1	62-38-4

**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 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, carbon dioxide, nitrogen oxides, and isocyanate-containing vapors.

**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.

**TC-878 PART A****7. Handling and storage**

**Precautions for safe handling:** Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating.

**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.

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

**Shelf life:** 6 months from date of shipment under manufacturers recommended storage conditions.

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

Control parameters				
Chemical name	Type	Occupational exposure limit values		
		ppm	mg/m <sup>3</sup>	
Dicyclohexylmethane-4,4'-diisocyanate	OSHA PEL	TWA	-	-
		STEL	-	-
		C	0.01 <sup>[1]</sup>	0.11 <sup>[1]</sup>
	ACGIH TLV	TWA	0.005	-
		STEL	-	-
	NIOSH REL	TWA	-	-
		STEL	-	-
		C	0.01	0.11
	Phenyl mercury acetate	OSHA PEL	TWA	-
STEL			-	-
ACGIH TLV		TWA	- <sup>[1]</sup>	0.1 as Hg <sup>[1]</sup>
		STEL	-	-
NIOSH REL		TWA	-	0.05
		STEL	-	-
		C		0.1
<b>Footnotes:</b>				
1. Skin				

**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:** Local exhaust should be used to maintain levels below the TLV whenever this diisocyanate is heated, sprayed, or aerosolized. Airborne Dicyclohexylmethane-4,4'-Diisocyanate (HMDI) concentrations greater than the appropriate standard/guideline can

**TC-878 PART A**

occur in inadequately ventilated environments when Dicyclohexylmethane-4,4'-Diisocyanate (HMDI) is sprayed, aerosolized, or heated. In such cases, respiratory protection must be worn. Use respiratory equipment with suitable filter (combined filter A2-P2) or wear a self contained respiratory apparatus. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**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

**Color:** Colorless

**Odor:** Slight

**pH:** No data available

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

**Flash point:** 207.2°C (405°F) Pensky-Martens CC

**Vapor pressure:** No data available

**Relative vapor density:** No data available

**Relative density:** 1.08 (water=1) at 25°C (77°F)

**Solubility:** Reacts with water

**Dynamic viscosity:** 650 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:** High temperatures, moisture, and freezing conditions.

**Possibility of hazardous reactions:** Reacts violently with amines (exothermic). Exothermic reactions with acids, alkalis, powerful oxidants, and alcohols. Reacts with water, whereby carbon dioxide is produced; pressure may build up in closed containers (danger of bursting).

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide, nitrogen oxides, and isocyanate-containing vapors.

**Incompatible materials:** Water, alcohols, amines, acids, bases, and strong 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
Cycloaliphatic polymer	No data available	No data available	No data available
Dicyclohexylmethane-4,4'-diisocyanate	18200 mg/kg Rat	> 7000 mg/kg Rat	0.33 mg/l Rat (4 h, dust/mist)
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	Not Established	Not Established	Not Established
Phenyl mercury acetate	41 mg/kg Rat	No data available	No data available

**Skin corrosion / irritation:** Causes skin irritation.

**Serious eye damage / irritation:** Causes serious eye irritation.

**TC-878 PART A**

**Respiratory or skin sensitization:** May cause sensitization by inhalation and skin contact.

**Germ cell mutagenicity:** No data available

**Reproductive toxicity:** No data available

**Specific Target Organ Toxicity - single exposure:** May cause respiratory irritation.

**Specific Target Organ Toxicity - repeated exposure:** No data available

**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

**Other adverse effects:** 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.

**14. Transport information**

**USA Department of Transport Regulations (DOT):** Not Regulated

**ICAO / IATA - air:** Not Regulated

**IMO / IMDG - sea:** Not Regulated

**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 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.	Comments
Dicyclohexylmethane-4,4'-diisocyanate	20 - 30	5124-30-1	Diisocyanate Compounds (Category Code N120)
Phenyl mercury acetate	< 0.1	62-38-4	Mercury Compounds (Category Code N458)

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

**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).

Chemical name	% w/w	CERCLA rq
Phenyl mercury acetate	< 0.1	100 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

**TC-878 PART A**

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 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
Phenyl mercury acetate	< 0.1	<ul style="list-style-type: none"> <li>Developmental Toxicity</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**

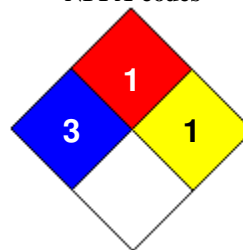
**Reason for issue:** Revision

**Date revised:** 05/26/2022

**Revision summary:** This SDS replaces the 01/10/2020 SDS.

**HMIS rating**

Health	*	3
Flammability		1
Physical hazard		1
Personal protection	X	

**NFPA codes**

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

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