

SAFETY DATA SHEET



Date Issued : 09/21/2017
 SDS No : TC-874 REV 1 PART A
 Date Revised : 01/04/2022
 Revision No : 1

TC-874 REV 1 PART A

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TC-874 REV 1 PART A

GENERAL USE: Polyurethane resin

MANUFACTURER

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

24 HR. EMERGENCY TELEPHONE NUMBERS

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

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

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

GHS LABEL

Health hazard

Exclamation
mark**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

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.
 H351: Suspected of causing cancer.
 H335: May cause respiratory irritation.
 H373: May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS**Prevention:**

P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 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.

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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.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.

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.

P308+P313: IF exposed or concerned: 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	Wt.%	CAS
4,4'-Diphenylmethane diisocyanate	30 - 60	101-68-8
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]	10 - 30	59675-67-1
Benzene, 1,1'-methylenebis[isocyanato-	10 - 30	26447-40-5
2,6-di-tert-butyl-p-cresol	0.1 - 1	128-37-0

4. FIRST AID MEASURES

EYES: 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.

NOTES TO PHYSICIAN: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, or foam.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons, and hydrogen cyanide.

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

SPILL AND LEAK PROCEDURES: 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

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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.

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.

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 GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m ³
4,4'-Diphenylmethane diisocyanate	OSHA PEL	C	0.02	0.2
	ACGIH TLV	TWA	0.005	-
	NIOSH REL	TWA	0.005	0.05
C		0.02 ^[1]	0.2 ^[1]	
2,6-di-tert-butyl-p-cresol	NIOSH REL	TWA	-	10
Footnotes:				
1. 10-minute				

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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: 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: 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: 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).

PROTECTIVE CLOTHING: Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.

WORK HYGIENIC 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

TC-874 REV 1 PART A**ODOR:** Slight**COLOR:** Pale yellow**pH:** No data available**PERCENT VOLATILE:** 0.09**FLASH POINT AND METHOD:** > 160°C (320°F) Pensky-Martens CC**VAPOR PRESSURE:** No data available**VAPOR DENSITY:** No data available**BOILING POINT:** No data available**SOLUBILITY IN WATER:** Reacts with water**SPECIFIC GRAVITY:** 1.158 (water=1) at 25°C (77°F)**VISCOSITY #1:** 450 Centipoise at 25°C (77°F)**(VOC):** < 1.1 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.**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:** Reaction with water produces carbon dioxide. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with, and heavier than water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface by liberating carbon dioxide gas.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons, and hydrogen cyanide.**INCOMPATIBLE MATERIALS:** Water, strong bases, strong acids, strong oxidizing agents, and amines.**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

Chemical Name	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
4,4'-Diphenylmethane diisocyanate	> 2000 mg/kg Rat	> 9400 mg/kg Rabbit	2.24 mg/l Rat (1 h, dust/mist)
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]	No data available	No data available	No data available
Benzene, 1,1'-methylenebis[isocyanato-	> 2000 mg/kg Rat	> 9400 mg/kg Rabbit	2.24 mg/l Rat (1 h, dust/mist)
2,6-di-tert-butyl-p-cresol	> 2900 mg/kg Rat	> 2000 mg/kg Rat	No data available

SKIN CORROSION/IRRITATION: Causes skin irritation.**SERIOUS EYE DAMAGE/IRRITATION:** Causes serious eye irritation.**RESPIRATORY OR SKIN SENSITISATION:** May cause sensitization by inhalation and skin contact.**GERM CELL MUTAGENICITY:** No data available**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status
4,4'-Diphenylmethane diisocyanate		3
2,6-di-tert-butyl-p-cresol		3
Naphthalene	2	2B


REPRODUCTIVE TOXICITY: No data available

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Chemical Name	Wt.%	CAS	Comments
4,4'-Diphenylmethane diisocyanate	30 - 60	101-68-8	Diisocyanate Compounds (Category Code N120)

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**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	Wt.%	CERCLA RQ
4,4'-Diphenylmethane diisocyanate	30 - 60	5,000 lbs.
Naphthalene	< 0.001	100 lbs.

TSCA (TOXIC SUBSTANCE 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. For more information, go to www.P65Warnings.ca.gov.

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Chemical Name	Wt.%	Listed
Naphthalene	< 0.001	• Cancer

OSHA HAZARD COMM. RULE: The contents of the SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): 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 SUBSTANCE LIST (INVENTORY): 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

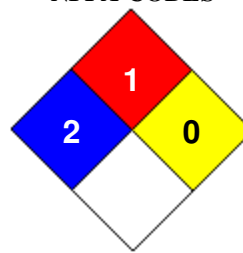
REASON FOR ISSUE: Revision

Date Revised: 01/04/2022

REVISION SUMMARY: This SDS replaces the 09/21/2017 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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