

SAFETY DATA SHEET



Date Issued : 08/10/2007
 SDS No : TC-995 PART A
 Date Revised : 06/15/2021
 Revision No : 5

TC-995 PART A

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TC-995 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 3
 Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Respiratory Sensitization, Category 1
 Skin Sensitization, Category 1
 Target Organ Toxicity (Single exposure), Category 3

Environmental:

Chronic Hazards to the Aquatic Environment, Category 3

GHS LABEL

Skull and
crossbones



Health hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H331: Toxic 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.
 H412: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS**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.

TC-995 PART A

P273: Avoid release to the environment.

Response:

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310: Immediately 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.

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
Cycloaliphatic diisocyanate prepolymer	60 - 100	Proprietary
Dicyclohexylmethane-4,4'-diisocyanate	10 - 20	5124-30-1
Isophorone diisocyanate	1 - 5	4098-71-9

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, 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

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 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.

TC-995 PART A

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

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.

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	Type	EXPOSURE LIMITS		
		ppm	mg/m ³	
Dicyclohexylmethane-4,4'-diisocyanate	OSHA PEL	TWA	-	-
		STEL	-	-
		C	0.01 ^[1]	0.11 ^[1]
	ACGIH TLV	TWA	0.005	-
		STEL	-	-
	NIOSH REL	TWA	-	-
		STEL	-	-
		C	0.01	0.11
	Isophorone diisocyanate	OSHA PEL	TWA	-
STEL			-	-
ACGIH TLV		TWA	0.005	-
		STEL	-	-
NIOSH REL		TWA	0.005	0.045
		STEL	0.02 ^[1]	0.18 ^[1]
Footnotes:				
1. Skin				

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: 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-995 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.

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: Viscous liquid

ODOR: Slight

COLOR: Colorless

pH: No data available

FLASH POINT AND METHOD: 157.2°C (315°F) Pensky-Martens CC

VAPOR PRESSURE: No data available

VAPOR DENSITY: No data available

BOILING POINT: No data available

SOLUBILITY IN WATER: Reacts slowly with water

SPECIFIC GRAVITY: 1.05 (water=1) at 25°C (77°F)

VISCOSITY #1: 6650 Centipoise at 25°C (77°F)

(VOC): < 0.3 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: 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, and isocyanate-containing vapors.

INCOMPATIBLE MATERIALS: Water, alcohols, amines, acids, bases, and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Chemical Name	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Cycloaliphatic diisocyanate prepolymer	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)
Isophorone diisocyanate	4814 mg/kg Rat	> 7000 mg/kg Rat	0.031 mg/l Rat (4 h, dust/mist)

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


REPRODUCTIVE TOXICITY: No data available

TC-995 PART A**STOT-SINGLE EXPOSURE:** May cause respiratory irritation.**STOT-REPEATED EXPOSURE:** No data available**ASPIRATION HAZARD:** No data available**12. ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release to the environment.**CHEMICAL FATE INFORMATION:** No data available**BIOACCUMULATION/ACCUMULATION:** No data available**ENVIRONMENTAL DATA:** This product may cause risk of hazardous effects to the environment.**DISTRIBUTION:** No data available**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** 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****DOT (DEPARTMENT OF TRANSPORTATION):** Not Regulated**AIR (ICAO/IATA):** Not Regulated**VESSEL (IMO/IMDG):** Not Regulated**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****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 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS	Comments
Dicyclohexylmethane-4,4'-diisocyanate	10 - 20	5124-30-1	Diisocyanate Compounds (Category Code N120)
Isophorone diisocyanate	1 - 5	4098-71-9	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
Naphthalene	< 0.001	100 lbs.
Ethyl acrylate	< 0.00001	1,000

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]

TC-995 PART A

known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Chemical Name	Wt.%	Listed
Naphthalene	< 0.001	● Cancer
Ethyl acrylate	< 0.00001	● 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).

GENERAL COMMENTS: No data available

16. OTHER INFORMATION

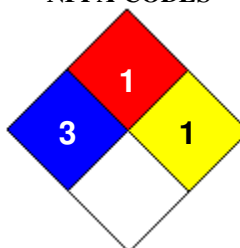
REASON FOR ISSUE: Revision

Date Revised: 06/15/2021

REVISION SUMMARY: This SDS replaces the 05/15/2018 SDS.

HMIS RATING

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION	X	

NFPA CODES

HMIS RATINGS NOTES: Personal Protection: See Section 8

MANUFACTURER DISCLAIMER: This information is furnished without warranty, expressed or implied, except that is accurate to the best knowledge of BJB Enterprises, Inc. The data on this sheet relates only to the specific material designated herein. BJB Enterprises, Inc. assumes no legal responsibility for use or reliance upon this data.