

## SAFETY DATA SHEET



Date Prepared : 10/15/2015  
SDS No : M-3180 REV 1 PART A

### M-3180 REV 1 PART A

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** M-3180 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**

Not a dangerous substance according to GHS.

**GHS LABEL**

Not Applicable

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Pale yellow viscous liquid with a slight odor.

**IMMEDIATE CONCERNS:** Avoid eye and skin contact. Avoid breathing vapors. May cause eye and skin irritation. Use in well ventilated areas. Reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

**POTENTIAL HEALTH EFFECTS**

**EYES:** May cause eye irritation.

**SKIN:** May cause skin irritation.

**INGESTION:** May be harmful if swallowed.

**INHALATION:** May be harmful if inhaled. May cause respiratory tract irritation.

**MEDICAL CONDITIONS AGGRAVATED:** None Known

**ROUTES OF ENTRY:** Eye and skin contact, inhalation of vapors, or accidental ingestion.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polyurethane prepolymer	60 - 100	Proprietary
1,2-cyclohexanedicarboxylic acid, 1,2-dinonyl ester, branched and linear	10 - 30	474919-59-0
Toluene-2,6-diisocyanate	< 0.03	91-08-7
Toluene-2,4-diisocyanate	< 0.03	584-84-9

#### 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 attention if irritation develops.

**M-3180 REV 1 PART A**

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical 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. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.

**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:** Alcohol resistant foam, carbon dioxide, dry chemical, dry sand, or limestone powder.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and carbon dioxide.

**EXPLOSION HAZARDS:** Material will react with water which produces carbon dioxide gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may rupture if overheated.

**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 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.

**LARGE SPILL:** Contain and absorb large spills onto an inert, non-flammable adsorbent carrier (such as earth or sand). 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 or rivers.

**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**

**M-3180 REV 1 PART A****EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Polyurethane prepolymer	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
1,2-cyclohexanedicarboxylic acid, 1,2-dinonyl ester, branched and linear	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Toluene-2,6-diisocyanate	TWA	NE	NE	0.005	NE	NE	NE
	STEL	NE	NE	0.02	NE	NE	NE
Toluene-2,4-diisocyanate	TWA	0.02	0.14	0.005	NE	NE	NE
	STEL	NE	NE	0.02	NE	NE	NE

**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:** Viscous liquid

**ODOR:** Slight

**COLOR:** Pale yellow

**pH:** Not Applicable

**PERCENT VOLATILE:** 0.18

**FLASH POINT AND METHOD:** > 160°C (320°F) Pinsky-Martens CC

**VAPOR PRESSURE:** < 1 mmHg at 21°C (70°F)

**VAPOR DENSITY:** Not Established

**BOILING POINT:** > 250°C (482°F)

**SOLUBILITY IN WATER:** Reacts slightly with water

**SPECIFIC GRAVITY:** 1.067 (water=1) at 25°C (77°F)

**VISCOSITY #1:** 4450 Centipoise at 25°C (77°F)

**(VOC):** < 1.930 g/l Calculated. Theoretical VOC minus water and exempt solvents.

**M-3180 REV 1 PART A****10. STABILITY AND REACTIVITY**

**REACTIVITY:** Hazardous reactions will not occur under normal transport or storage conditions.

**HAZARDOUS POLYMERIZATION:** Product may foam when exposed to heat and moisture.

**STABILITY:** This product is stable under normal ambient conditions of temperature and pressure.

**CONDITIONS TO AVOID:** High temperatures, moisture, and freezing conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and carbon dioxide.

**INCOMPATIBLE MATERIALS:** Moisture, oxidizing agents, and alcohols.

**11. TOXICOLOGICAL INFORMATION****ACUTE**

Chemical Name	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>
Polyurethane prepolymer	Not Established	Not Established	Not Established
1,2-cyclohexanedicarboxylic acid, 1,2-dinonyl ester, branched and linear	> 5000 mg/kg	> 2000 mg/kg	Not Established
Toluene-2,6-diisocyanate	> 5000 mg/kg	> 4000 mg/kg	> 480 mg/kg
Toluene-2,4-diisocyanate	> 5000 mg/kg	> 4000 mg/kg	> 480 mg/kg

**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status
Toluene-2,6-diisocyanate	2	2B
Toluene-2,4-diisocyanate	2	2B

**IARC:** This product contains substances that are classified as possible carcinogens to humans.

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** No data available

**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.

**BIOACCUMULATION/ACCUMULATION:** No data available

**DISTRIBUTION:** No data available

**CHEMICAL FATE INFORMATION:** 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

**COMMENTS:** Not dangerous according to transport regulations.

**M-3180 REV 1 PART A****15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** None Known

**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:

None

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** For this/these chemicals, release of more than the Reportable Quantity to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675):

Chemical Name	Wt.%	CERCLA RQ
Toluene-2,6-diisocyanate	< 0.03	100 lbs.
Toluene-2,4-diisocyanate	< 0.03	100 lbs.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** This product contains chemical(s) subject to TSCA Section 12(b) export notification:

None

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

**CLEAN AIR ACT**

Chemical Name	Wt.%	CAS
Toluene-2,6-diisocyanate	< 0.03	91-08-7
Toluene-2,4-diisocyanate	< 0.03	584-84-9

**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:** This product contains chemical(s) which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

None

**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 MSDS contains all the information required by the CPR.

**WHMIS CLASS:** Does not meet criteria.

**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

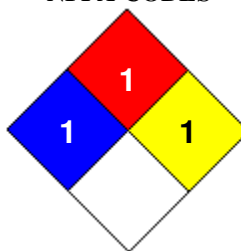
**16. OTHER INFORMATION**

**REASON FOR ISSUE:** New Issue

**Date Prepared:** 10/15/2015

**M-3180 REV 1 PART A****HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>1</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>1</b>
<b>PERSONAL PROTECTION</b>	<input checked="" type="checkbox"/>	

**NFPA CODES**

**HMIS RATINGS NOTES:** Personal Protection: See Section 8

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