

# MATERIAL SAFETY DATA SHEET



Date Issued: 04/06/2009  
MSDS No: WC-753 PART A

## WC-753 PART A

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** WC-753 PART A  
**GENERAL USE:** Polyurethane resin  
**CHEMICAL FAMILY:** Isocyanate terminated polyglycol mixture

#### MANUFACTURER

BJB Enterprises, Inc.  
14791 Franklin Avenue  
Tustin, CA 92780  
**Customer Service Number:** (714) 734-8450  
**Fax:** (714) 734-8929

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (US Transportation):** (800) 424-9300  
or (703) 527-3887

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE AND ODOR:** Colorless liquid with a slight odor.

**IMMEDIATE CONCERNS:** May cause eye and skin irritation. Use in well ventilated areas. Avoid breathing vapors. Avoid contact with strong oxidizers and strong acids, as sudden reaction may result in fire and toxic fumes. Reacts slowly with water to produce carbon dioxide which may rupture containers. This reaction accelerates at higher temperatures.

#### POTENTIAL HEALTH EFFECTS

**EYES:** May cause irritation, tearing, reddening, and swelling. May cause slight corneal injury.

**SKIN:** May cause irritation and possible allergic sensitivity. Skin inflammation is characterized by itching, scaling, or reddening.

**INGESTION:** May cause irritation with symptoms including abdominal pain, nausea, vomiting, and diarrhea.

**INHALATION:** May be harmful if inhaled. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to the respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of diisocyanates may develop in sensitized persons.

**MEDICAL CONDITIONS AGGRAVATED:** May cause or aggravate dermatitis and asthma.

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Cycloaliphatic diisocyanate prepolymer	40 - 50	Proprietary
4,4'-Diphenylmethane diisocyanate	15 - 25	101-68-8
Modified MDI	15 - 25	Proprietary
Dicyclohexylmethane-4,4'-diisocyanate	10 - 20	5124-30-1
Solvent naphtha, petroleum, light aromatic	< 1	64742-95-6
Xylene	< 1	1330-20-7
1,2,4-trimethylbenzene	< 0.3	95-63-6
Ethylbenzene	< 0.2	100-41-4
Toluene	0.005	108-88-3

#### 4. FIRST AID MEASURES

**EYES:** Immediately rinse with water. Remove contact lenses. Hold eyelids apart and flush eyes with water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. 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 patient from exposure, keep warm and at rest. Obtain immediate medical attention. Treatment is symptomatic for primary irritation or bronchospasm. If breathing is labored, oxygen should be administered by qualified personnel. Apply artificial respiration if breathing has ceased or shows signs of failing.

**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

**FLASHPOINT AND METHOD:** 96.1°C (205°F) Pinsky-Martens CC

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

**EXPLOSION HAZARDS:** Avoid contact with strong oxidizers and strong acids, as sudden reaction may result in fire and toxic fumes. Reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

**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).

**RELEASE NOTES:** US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

**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 cool, dry 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.

**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)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Cycloaliphatic diisocyanate prepolymer	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
4,4'-Diphenylmethane diisocyanate	TWA	NE	NE	0.005	0.051	0.005 <sup>[1]</sup>	0.05 <sup>[1]</sup>
	STEL	NE	NE	NE	NE	NE	NE
Modified MDI	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Dicyclohexylmethane-4,4'-diisocyanate	TWA	NE	NE	0.005	0.054	0.01 <sup>[2]</sup>	0.11 <sup>[2]</sup>
	STEL	NE	NE	NE	NE	NE	NE
Solvent naphtha, petroleum, light aromatic	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Xylene	TWA	100	435	100	434	NE	NE
	STEL	NE	NE	150	651	NE	NE
1,2,4-trimethylbenzene	TWA	NE	NE	25	123	25 <sup>[1]</sup>	125 <sup>[1]</sup>
	STEL	NE	NE	NE	NE	NE	NE
Ethylbenzene	TWA	100	435	100	434	100 <sup>[1]</sup>	435 <sup>[1]</sup>
	STEL	NE	NE	125	543	125 <sup>[1]</sup>	545 <sup>[1]</sup>
Toluene	TWA	200	NE	50	188	100 <sup>[1]</sup>	375 <sup>[1]</sup>
	STEL	300	NE	NE	NE	150 <sup>[1]</sup>	560 <sup>[1]</sup>

**OSHA TABLE COMMENTS:**  
 1. NIOSH REL  
 2. NIOSH REL (ceiling)

**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

**ODOR:** Slight

**COLOR:** Colorless

**pH:** Not Applicable

**PERCENT VOLATILE:** 1.5

**VAPOR PRESSURE:** < 0.1 mmHg at 25°C (77°F)

**VAPOR DENSITY:** Not Established

**BOILING POINT:** Decomposes

**FLASHPOINT AND METHOD:** 96.1°C (205°F) Pinsky-Martens CC

**SOLUBILITY IN WATER:** Insoluble, reacts slowly with water

**SPECIFIC GRAVITY:** 1.120 (water=1) at 25°C (77°F)

**VISCOSITY:** 4150 Centipoise at 25°C (77°F)

**VOC (Volatile Organic Compound):** 16.700 g/l Calculated. Theoretical VOC minus water and exempt solvents.

### **10. STABILITY AND REACTIVITY**

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

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

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, nitrous oxide, and HCN.

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

## 11. TOXICOLOGICAL INFORMATION

### TOXICITY TO ANIMALS

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Cycloaliphatic diisocyanate prepolymer	Not Established	Not Established	Not Established
4,4'-Diphenylmethane diisocyanate	> 5000 mg/kg	> 5000 mg/kg	Not Established
Modified MDI	Not Established	Not Established	Not Established
Dicyclohexylmethane-4,4'-diisocyanate	9900 mg/kg	> 10000 mg/kg	0.29 to 0.30 mg/l (4 h of aerosols)
Solvent naphtha, petroleum, light aromatic	Not Established	Not Established	Not Established
Xylene	4300 mg/kg	14100 uL/kg	4550 ppm (4 h)
1,2,4-trimethylbenzene	12.7 g/kg	Not Established	18 g/m <sup>3</sup>
Ethylbenzene	3500 mg/kg	17800 uL/kg	Not Established
Toluene	636 mg/kg	2 to 14 g/kg	26700 ppm (1h)

### CARCINOGENICITY

Chemical Name	IARC Status
4,4'-Diphenylmethane diisocyanate	3
Ethylbenzene	2B
Toluene	3

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

## 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.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with local, state, provincial or national regulations.

**EMPTY CONTAINER:** Containers must be emptied (as defined by RCRA, 40 CFR Section 261.7 or state regulations that may be more stringent) and either passed to an approved recycler or destroyed.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION) LAND

**NOTE:** Not Regulated

### AIR (ICAO/IATA)

**NOTE:** Not Regulated

**VESSEL (IMO/IMDG)**

NOTE: Not Regulated

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Acute health hazard. Chronic health 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 SUPPLIER NOTIFICATION**

Chemical Name	Wt. %	CAS	Comments
4,4'-Diphenylmethane diisocyanate	15 - 25	101-68-8	Diisocyanate Compounds (Category Code N120)
Dicyclohexylmethane-4,4'-diisocyanate	10 - 20	5124-30-1	Diisocyanate Compounds (Category Code N120)

**CERCLA (COMPREHENSIVE 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
4,4'-Diphenylmethane diisocyanate	15 - 25	5,000 lbs.
Xylene	< 1	100 lbs.
Ethylbenzene	< 0.2	1,000
Toluene	0.005	1,000 lbs.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)****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.**REGULATIONS****STATE REGULATIONS:** 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):**CALIFORNIA PROPOSITION 65**

Chemical Name	Wt. %	Listed
Ethylbenzene	< 0.2	Cancer
Toluene	0.005	Developmental Toxicity

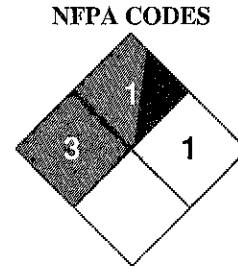
**OSHA HAZARD COMM. RULE:** The contents of the MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.**16. OTHER INFORMATION****REASON FOR ISSUE:** Revised format

APPROVED BY: Michael Rose    TITLE: R & D Manager

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**HMIS RATING**

<b>HEALTH:</b>	*	<b>3</b>
<b>FLAMMABILITY:</b>		<b>1</b>
<b>PHYSICAL HAZARD:</b>		<b>1</b>
<b>PERSONAL PROTECTION:</b>	<b>X</b>	



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

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