MATERIAL SAFETY DATA SHEET

Date Issued: 04/20/2011
MSDS No: TC-8764 PART B

TC-8764 PART B

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TC-8764 PART B
GENERAL USE: Polyurethane curing agent
CHEMICAL FAMILY: Aromatic diamine solution

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: Amber liquid with a slight amine odor.

IMMEDIATE CONCERNS: Avoid eye and skin contact. Avoid breathing vapors. May cause eye and skin irritation. Use in well ventilated areas.

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation.

SKIN: May cause irritation and possible allergic sensitivity with repeated contact.

INGESTION: May be harmful if swallowed.

INHALATION: May result in respiratory 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
Di-(methylthio)toluenediamine	50 - 60	106264-79-3
Benzoate Esters	10 - 20	Proprietary
Butyl benzyl phthalate	5 - 10	85-68-7
N-Methylpyrrolidone	5.3	872-50-4
Aromatic hydrocarbon	1	64742-94-5
Naphthalene	0.1	91-20-3
Acrylonitrile	0.03	107-13-1
Phenyl mercuric acetate (60% as Hg)	0.012	62-38-4

4. FIRST AID MEASURES

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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 persists.

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. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

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: 107°C (225°F) Pensky-Martens CC

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

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.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen, and sulfur.

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

TC-8764 PART B

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		**ppm**	**mg/m³**	**ppm**	**mg/m³**	**ppm**	**mg/m³**
Di-(methylthio)toluenediamine	**TWA**	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Benzoate Esters	**TWA**	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Butyl benzyl phthalate	**TWA**	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
N-Methylpyrrolidone	**TWA**	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Aromatic hydrocarbon	**TWA**	NE	NE	NE	NE	17	100
	STEL	NE	NE	NE	NE	NE	NE
Naphthalene	**TWA**	10	50	10	52	10 [1]	50 [1]
	STEL	NE	NE	15	79	15	75
Acrylonitrile	**TWA**	10	25	10	25	1 [1]	2.17 [1]
	STEL	NE	NE	NE	NE	NE	NE
Phenyl mercuric acetate (60% as Hg)	**TWA**	NE	NE	NE	NE	NE [1]	0.01 [1]
	STEL	NE	NE	NE	NE	NE [2]	0.03 [2]
OSHA TABLE COMMENTS: **1**. NIOSH REL **2**. NIOSH REL (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: 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

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PHYSICAL STATE: Liquid
ODOR: Slight amine
COLOR: Amber
pH: Not Established
PERCENT VOLATILE: 8.13
VAPOR PRESSURE: < 0.1 mmHg at 20°C (68°F)
VAPOR DENSITY: Not Established
BOILING POINT: 175°C (347°F) Decomposes
FLASHPOINT AND METHOD: 107°C (225°F) Pensky-Martens CC
SOLUBILITY IN WATER: Partially Soluble
SPECIFIC GRAVITY: 1.140 (water=1) at 25°C (77°F)
VISCOSITY: 250 Centipoise at 25°C (77°F)
VOC (Volatile Organic Compound): 92.700 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 will not undergo polymerization.
CONDITIONS TO AVOID: High temperatures, moisture, and freezing conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide, nitrogen oxides and sulfur.
INCOMPATIBLE MATERIALS: Isocyanates, oxidizing agents, and strong mineral acids.

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS

Chemical Name	ORAL LD_{50} (rat)	DERMAL LD_{50} (rabbit)	INHALATION LC_{50} (rat)
Di-(methylthio)toluenediamine	1515 mg/kg	> 2000 mg/kg	Not Established
Benzoate Esters	5313 mg/kg	> 2000 mg/kg	> 200 mg/l
Butyl benzyl phthalate	20400 mg/kg	> 10000 mg/kg	> 6.7 mg/l
N-Methylpyrrolidone	4990 mg/kg	8 mg/kg	> 5.1 mg/l (4 h)
Aromatic hydrocarbon	Not Established	> 2000 mg/kg	Not Established
Naphthalene	490 mg/kg	> 20 g/kg	Not Established
Acrylonitrile	Not Established	Not Established	Not Established
Phenyl mercuric acetate (60% as Hg)	41 mg/kg	Not Established	Not Established

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
Butyl benzyl phthalate		3	
Naphthalene	2	2B	
Acrylonitrile	2	2B	X

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

12. ECOLOGICAL INFORMATION

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ECOTOXICOLOGICAL INFORMATION: Mercury has toxic effects on bacteria, daphnia magna, fish, and other aquatic organisms. Mercury can accumulate in organisms, danger of bioaccumulation.

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): Not Regulated

VESSEL (IMO/IMDG): 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
N-Methylpyrrolidone	5.3	872-50-4	
Phenyl mercuric acetate (60% as Hg)	0.012	62-38-4	Mercury Compounds (Category Code N458)

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
Butyl benzyl phthalate	5 - 10	100 lbs.
Naphthalene	0.1	100 lbs.
Acrylonitrile	0.03	100 lbs.
Phenyl mercuric acetate (60% as Hg)	0.012	100 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

CLEAN AIR ACT

Chemical Name	Wt.%	CAS
Acrylonitrile	0.03	107-13-1

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

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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
Butyl benzyl phthalate	5 - 10	• Cancer • Developmental Toxicity
N-Methylpyrrolidone	5.3	• Cancer • Developmental Toxicity
Naphthalene	0.1	Cancer
Acrylonitrile	0.03	Cancer
Phenyl mercuric acetate (60% as Hg)	0.012	• Developmental Toxicity

OSHA HAZARD COMM. RULE: The contents of the MSDS 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: B3, B4, D2A, D2B

DOMESTIC SUBSTANCE LIST (INVENTORY): All components in this product are included on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

16. OTHER INFORMATION

REASON FOR ISSUE: Revised format

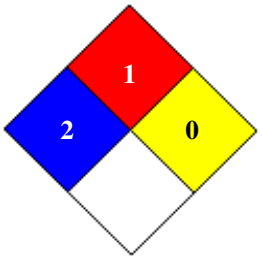
APPROVED BY: Michael Rose **TITLE:** R & D Manager

PREPARED BY: Gus Alidad

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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