

# MATERIAL SAFETY DATA SHEET



Date Issued: 12/08/2008  
MSDS No: TC-1630 PART B

## TC-1630 PART B

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TC-1630 PART B  
**GENERAL USE:** Polyurethane curing agent  
**CHEMICAL FAMILY:** Polyether polyols with dispersed mineral fillers

#### 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:** White liquid with an aromatic hydrocarbon odor.

**IMMEDIATE CONCERNS:** Combustible. Keep away from heat and sources of ignition. 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, tearing, reddening, and swelling.

**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:** No data is available.

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Filler mixture	60 - 70	Proprietary
Polyether polyol mixture	10 - 20	Proprietary
Hydroxy terminated poly(oxyalkylated) polyol	5 - 10	000102-60-3
Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester	5 - 10	006846-50-0
Aromatic hydrocarbon	5 - 10	064742-94-5
Solvent naphtha (petroleum), medium aliphatic	< 2	064742-88-7
Naphthalene	< 0.7	000091-20-3
Titanium oxide (TiO <sub>2</sub> )	< 0.3	013463-67-7
1,2,4-trimethylbenzene	< 0.2	000095-63-6

#### 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. Consult a physician.

**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:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek 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

**FLASHPOINT AND METHOD:** 63°C (146°F) Pensky-Martens CC

**GENERAL HAZARD:** Combustible liquid and vapor.

**EXTINGUISHING MEDIA:** Foam, carbon dioxide, dry chemical, or water fog.

**EXPLOSION HAZARDS:** Temperatures at or above the flash point could generate combustible mixtures. Avoid all ignition sources. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

**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.

**SENSITIVE TO STATIC DISCHARGE:** This material can accumulate static charges which can cause an incendiary electrical discharge.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL: Eliminate sources of ignition.** 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 (earth or sand). Do not use combustible materials such as saw dust. Use only spark resistant and explosion proof recovery devices. 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:** Combustible liquid. 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, well ventilated, dry place, away from excessive heat in the original or similar container. Avoid sources of ignition and incompatible materials. Keep containers tightly sealed. Avoid unnecessary contact.

**SHELF LIFE:** 3 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>
Filler mixture	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Polyether polyol mixture	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Hydroxy terminated poly(oxyalkylated) polyol	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester	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
Solvent naphtha (petroleum), medium aliphatic	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Naphthalene	TWA	10	50	10	52	10 <sup>[1]</sup>	50 <sup>[1]</sup>
	STEL	NE	NE	15	79	15	75
Titanium oxide (TiO <sub>2</sub> )	TWA	NE <sup>[2]</sup>	15 T <sup>[2]</sup>	NE <sup>[2]</sup>	10 <sup>[2]</sup>	NE	NE
	STEL	NE	NE	NE	NE	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
<b>OSHA TABLE COMMENTS:</b>							
1. NIOSH REL							
2. Total dust (8 hours)							

**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:** Aromatic hydrocarbon

**COLOR:** White

**pH:** Not Established

**PERCENT VOLATILE:** 9.0

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** Not Established

**BOILING POINT:** Not Established

**FLASHPOINT AND METHOD:** 63°C (146°F) Pensky-Martens CC

**SOLUBILITY IN WATER:** Slightly soluble

**SPECIFIC GRAVITY:** 1.600 (water=1) at 25°C (77°F)

**VISCOSITY:** 1300 Centipoise at 25°C (77°F)

**VOC (Volatile Organic Compound):** 144.000 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, sources of ignition, strong acids and bases.

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

**INCOMPATIBLE MATERIALS:** Isocyanates, oxidizing agents, and strong mineral acids.

## 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)
Filler mixture	Not Established	Not Established	Not Established
Polyether polyol mixture	Not Established	Not Established	Not Established
Hydroxy terminated poly(oxyalkylated) polyol	3.28 g/kg	> 2 g/kg	Not Established
Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester	> 3.2 g/kg	Not Established	> 5.3 mg/l
Aromatic hydrocarbon	Not Established	Not Established	Not Established
Solvent naphtha (petroleum), medium aliphatic	Not Established	Not Established	Not Established
Naphthalene	490 mg/kg	> 20 g/kg	Not Established
Titanium oxide (TiO <sub>2</sub> )	> 24000 mg/kg	> 10000 mg/kg	> 6.82 mg/l
1,2,4-trimethylbenzene	12.7 g/kg	Not Established	18 g/m <sup>3</sup>

### CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Naphthalene	2	2B
Titanium oxide (TiO <sub>2</sub> )		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:

**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
Naphthalene	< 0.7	100 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
Naphthalene	< 0.7	Cancer

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

**16. OTHER INFORMATION**

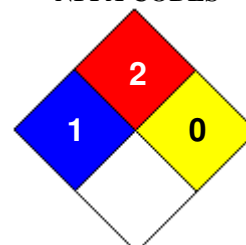
**REASON FOR ISSUE:** Revised format

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

**PREPARED BY:** Gus Alidad

**HMIS RATING**

<b>HEALTH:</b>	*	<b>1</b>
<b>FLAMMABILITY:</b>		<b>2</b>
<b>PHYSICAL HAZARD:</b>		<b>0</b>
<b>PERSONAL PROTECTION:</b>	<b>X</b>	

**NFPA CODES**

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

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