

# MATERIAL SAFETY DATA SHEET



Date Issued: 01/12/2009  
 MSDS No: TC-5101 PART B  
 Date-Revised: 04/23/2009  
 Revision No: 1

## TC-5101 PART B

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TC-5101 PART B  
**GENERAL USE:** Silicone catalyst  
**CHEMICAL FAMILY:** Polyorganosiloxanes

#### 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:** Translucent viscous liquid with no odor.

**IMMEDIATE CONCERNS:** Caution! May cause eye irritation. Flammable hydrogen gas may be released during storage and on contact with water, alcohols, bases, and some metallic salts.

#### POTENTIAL HEALTH EFFECTS

**EYES:** May cause irritation.

**SKIN:** Non-irritating. Low acute dermal toxicity.

**INGESTION:** Low acute oral toxicity.

**INHALATION:** Not likely.

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Polyorganosiloxanes	Proprietary	Proprietary
Silica, amorphous, treated	Proprietary	Proprietary
Diquaternary Polydimethylsiloxane	5 - 10	70900-21-9
Siloxanes And Silicones, Di-me, Me Hydrogen, Hydrogen-terminated	1 - 5	69013-23-6

### 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 victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

**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:** Not Applicable

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

**EXPLOSION HAZARDS:** Product will burn under fire conditions. Small amounts of hydrogen gas, which is flammable and can form explosive mixtures with air, may be released during storage and on contact with water, acids, bases, amines and common metals.

**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:** Hydrogen, formaldehyde, oxides of carbon, and silica

## 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>
Polyorganosiloxanes	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Silica, amorphous, treated	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Diquaternary Polydimethylsiloxane	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Siloxanes And Silicones, Di-me, Me Hydrogen, Hydrogen-terminated	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	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:** Odorless

**COLOR:** Colorless

**pH:** Not Applicable

**PERCENT VOLATILE:** None

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** Not Established

**BOILING POINT:** Not Established

**FLASHPOINT AND METHOD:** Not Applicable

**SOLUBILITY IN WATER:** Insoluble

**SPECIFIC GRAVITY:** 1.080 (water=1) at 25°C (77°F)

**VISCOSITY:** 1700 Centipoise at 25°C (77°F)

**VOC (Volatile Organic Compound):** None

## 10. STABILITY AND REACTIVITY

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

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Combustible materials, heat, open flame, spark, static electricity, water and extreme humidity.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen, dimethylcyclosiloxanes, methylphenylcyclosiloxanes, and formaldehyde.

**INCOMPATIBLE MATERIALS:** Moisture, water, strong bases, strong acids, strong oxidizing agents, alcohols, amines, and metal salts.

## 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)
Polyorganosiloxanes	Not Established	Not Established	Not Established
Silica, amorphous, treated	Not Established	Not Established	Not Established
Diquaternary Polydimethylsiloxane	Not Established	Not Established	Not Established
Siloxanes And Silicones, Di-me, Me Hydrogen, Hydrogen-terminated	Not Established	Not Established	Not Established

## 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:** 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

#### 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.

**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 MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** Revision

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

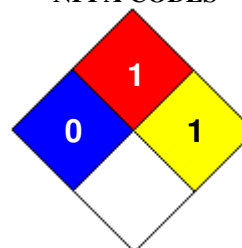
**PREPARED BY:** Gus Alidad

**REVISION SUMMARY:** Revision 1

#### HMIS RATING

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

#### NFPA CODES



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