

MATERIAL SAFETY DATA SHEET



Date Issued: 05/10/2007
 MSDS No: TC-5024 PART A
 Revision No: New MSDS

TC-5024 PART A

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TC-5024 PART A
GENERAL USE: Organopolysiloxane mixture
CHEMICAL FAMILY: Silicone

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: Off-white paste-like 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.

POTENTIAL HEALTH EFFECTS

EYES: Non-irritating.

SKIN: Non-irritating. Low acute dermal toxicity.

INGESTION: Low acute oral toxicity.

INHALATION: Not likely.

CHRONIC TOXICITY

CHRONIC EFFECTS: This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic).

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Polydimethylsiloxane fluids	60 - 85	Proprietary
Silica, Amorphous	10 - 30	112926-00-8
Silica, Crystalline	5 - 10	014808-60-7
Titanium oxide (TiO ₂)	0.1 - 1	013463-67-7

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: > 148°C (299°F) Pensky-Martens CC

EXTINGUISHING MEDIA: Dry chemical, foam, or carbon dioxide.

EXPLOSION HAZARDS: Material will burn under fire conditions.

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: Formaldehyde, oxides of carbon, and silica (crystalline).

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 tightly closed containers. Store in an area that is clean, dry, and well-ventilated. DO NOT ALLOW TO FREEZE.

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 ³	ppm	mg/m ³	ppm	mg/m ³
Polydimethylsiloxane fluids	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Silica, Amorphous	TWA	20 mpp ppm	80 mg/m ³	NIC	(10) mg/m ³	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Silica, Crystalline	TWA	250mpp ppm	10 mg/m ³	NIC	(0.05) mg/m ³	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Titanium oxide (TiO ₂)	TWA	NE ^[1]	15 T mg/m ³ ^[1]	NE ^[1]	10 mg/m ³ ^[1]	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
OSHA TABLE COMMENTS:							
1. 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: Paste-like

ODOR: Slight

COLOR: Off white

pH: Not Applicable

PERCENT VOLATILE: 0

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

BOILING POINT: Not Established

FLASHPOINT AND METHOD: > 148°C (299°F) Pensky-Martens CC

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 1.220 (water=1) at 25°C (77°F)

VISCOSITY: 61000 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, and spark.

HAZARDOUS DECOMPOSITION PRODUCTS: Dimethylcyclosiloxanes, methylphenylcyclosiloxanes, and formaldehyde.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong alkalies, and strong acids.

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Polydimethylsiloxane fluids	Not Established	Not Established	Not Established
Silica, Amorphous	Not Established	Not Established	Not Established
Silica, Crystalline	Not Established	Not Established	Not Established
Titanium oxide (TiO ₂)	> 24000 mg/kg	> 10000 mg/kg	> 6.82 mg/l

CHRONIC EFFECTS: This product contains the substances that are considered to "probable" or "suspected" human carcinogens.

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Silica, Crystalline	1	1
Titanium oxide (TiO ₂)		3

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)

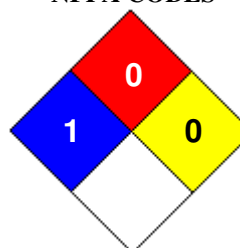
NOTE: Not Regulated

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**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:** New Issue**APPROVED BY:** Michael Rose **TITLE:** R & D Manager**PREPARED BY:** Gus Alidad**REVISION SUMMARY:** New MSDS**HMIS RATING**

HEALTH:	1
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	X

NFPA CODES

HMIS RATINGS NOTES: Personal Protection: See Section 8

MANUFACTURER DISCLAIMER: Information given herein is offered in good faith as accurate, buy without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.