

MATERIAL SAFETY DATA SHEET



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

TC-5024 PART B

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TC-5024 PART B
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: Blue liquid with an alcohol-like odor.

IMMEDIATE CONCERNS: WARNING!! COMBUSTIBLE LIQUID. CONTAINS AN ORGANOTIN COMPOUND WHICH MAY BE TOXIC BY INGESTION, INHALATION AND ABSORPTION, IS A SKIN IRRITANT, SEVERE EYE IRRITANT, AND CAN POSSIBLY CAUSE CHRONIC EFFECTS. If moisture is present, methanol may be emitted before and during curing and is irritation to the eyes, skin, and respiratory tract. Methanol, at high concentrations, can have central nervous system effects and may cause blindness if swallowed (unlikely route for exposure in this form).

POTENTIAL HEALTH EFFECTS

EYES: Irritant. Methanol, emitted during curing, may cause redness, tissue destruction, and irritation.

SKIN: Toxic if absorbed through the skin. Irritant. Methanol, emitted during curing, may cause redness, dryness, loss of natural oils, and irritation.

INGESTION: Harmful if ingested. Can cause blindness, nausea, vomiting, and abdominal pain.

INHALATION: Toxic if inhaled. Methanol, emitted during curing, may cause upper respiratory tract irritation, dizziness, and headache.

CHRONIC TOXICITY

CHRONIC EFFECTS: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens. Organotin compounds can affect the central nervous system, respiratory system, eyes, liver, urinary tract, skin and blood. Symptoms include sore throat, cough, headache, dizziness, nausea, vomiting, and weakness.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Dimethylpolysiloxane fluid	40 - 70	Proprietary
Silane, trimethoxyphenyl-	15 - 40	002996-92-1
Methanol	< 13	000067-56-1
Dibutyltin laurate	1 - 5	000077-58-7

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: 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: 68°C (155°F) Pensky-Martens CC

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

EXPLOSION HAZARDS: This product has flash point as indicated above. However it does not sustain combustion as determined by a test method specified in 49 CFR 173 - Appendix H to Part 173 Method for Sustained Combustibility. Storage practices should be in accordance with local fire code requirements.

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: 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 tightly closed containers. Store in an area that is clean, dry, well-ventilated, away from combustible material, ignition sources, and incompatible materials (see Section 10 and Reactivity).

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		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Dimethylpolysiloxane fluid	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Silane, trimethoxyphenyl-	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Methanol	TWA	200 ppm ^[1]	260 mg/m ³ ^[1]	200 ppm	262 mg/m ³	NE	NE
	STEL	NE	NE	250 ppm	328 mg/m ³	NE	NE
Dibutyltin laurate	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE

OSHA TABLE COMMENTS:
1. S = 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**PHYSICAL STATE:** Liquid**ODOR:** Alcohol-like**COLOR:** Blue**pH:** Not Applicable**PERCENT VOLATILE:** 13**VAPOR PRESSURE:** < 20 mmHg at 107°C (225°F)**VAPOR DENSITY:** Not Established**BOILING POINT:** > 211°C (412°F) @ 760 mmHg**FLASHPOINT AND METHOD:** 68°C (155°F) Pinsky-Martens CC**SOLUBILITY IN WATER:** Slowly hydrolyzes**SPECIFIC GRAVITY:** 1.000 (water=1) at 25°C (77°F)**VISCOSITY:** 60 Centipoise at 25°C (77°F)**VOC (Volatile Organic Compound):** < 130.000 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:** Will not occur.**CONDITIONS TO AVOID:** Combustible materials, heat, open flame, spark, static electricity, water and extreme humidity.**HAZARDOUS DECOMPOSITION PRODUCTS:** Methanol, dimethylcyclsiloxanes, methylphenylcyclsiloxanes, and formaldehyde.**INCOMPATIBLE MATERIALS:** Moisture, water, strong bases, strong acids, and strong oxidizing agents.**11. TOXICOLOGICAL INFORMATION****TOXICITY TO ANIMALS**

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Dimethylpolysiloxane fluid	Not Established	Not Established	Not Established
Silane, trimethoxyphenyl-	Not Established	Not Established	Not Established
Methanol	Not Established	Not Established	Not Established
Dibutyltin laurate	> 2000 mg/kg	> 2000 mg/kg	Not Established

EYE EFFECTS: Eye irritation, rabbit. Moderately irritating. Data for methyl alcohol, emitted on contact with moisture.**SKIN EFFECTS:** Skin irritation, rabbit. Moderately irritating. Data for methyl alcohol, emitted on contact with moisture.**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:

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Methanol	< 13	000067-56-1

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
Methanol	< 13	5,000 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.

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

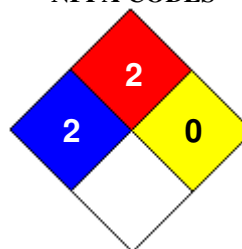
APPROVED BY: Michael Rose **TITLE:** R & D Manager

PREPARED BY: Gus Alidad

REVISION SUMMARY: New MSDS

HMIS RATING

HEALTH:	1	2
FLAMMABILITY:	2	2
PHYSICAL HAZARD:	0	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.