

MATERIAL SAFETY DATA SHEET



Date Issued: 03/01/2006
MSDS No: F-55 Part B
Date-Revised: 05/19/2006
Revision No: New MSDS

F-55 Part B

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: F-55 Part B
GENERAL USE: Polyurethane curing agent
CHEMICAL FAMILY: Aromatic diamine-glycol mixture

MANUFACTURER

BJB Enterprises, Inc.
 14791 Franklin Avenue
 Tustin, CA 92780
Customer Service Number: (714) 734-8450
Alternate Customer Service: (714) 734-8929 fax

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation): (800) 424-9300
 or (703) 527-3887

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Pale yellow 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: Slightly hazardous in case of ingestion.

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

| <u>Chemical Name</u> | <u>Wt. %</u> | <u>CAS</u> |
|--|--------------|-------------|
| Polyether polyol | 80 - 100 | Proprietary |
| Di-(methylthio)toluenediamine | 5 - 10 | 106264-79-3 |
| Phenyl mercuric neodecanoate (35% as Hg) | 0.155 | 026545-49-3 |

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. Have eyes examined and tested by medical personnel.

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: 191°C (375°F) Pensky-Martens CC

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

EXPLOSION HAZARDS: None

FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water spray. Remove containers from 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.

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 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)

| <u>Chemical Name</u> | <u>EXPOSURE LIMITS</u> | | | | | | |
|--|------------------------|-------------------------|------------------|-------------------------|---------------------|-------------------------|----|
| | <u>OSHA PEL</u> | | <u>ACGIH TLV</u> | | <u>SUPPLIER OEL</u> | | |
| | <u>ppm</u> | <u>mg/m³</u> | <u>ppm</u> | <u>mg/m³</u> | <u>ppm</u> | <u>mg/m³</u> | |
| Polyether polyol | TWA - | NE | NE | NE | NE | NE | NE |
| | STEL - | NE | NE | NE | NE | NE | NE |
| Di-(methylthio)toluenediamine | TWA - | NE | NE | NE | NE | NE | NE |
| | STEL - | NE | NE | NE | NE | NE | NE |
| Phenyl mercuric neodecanoate (35% as Hg) | TWA - | NE | 0.1 | NE | 0.1 | NE | NE |
| | STEL - | NE | NE | NE | NE | NE | NE |

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: Impermeable gloves. Employees should wash their hands and face before eating, drinking, or using tobacco products.

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.

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: Slight amine

APPEARANCE: Transparent

COLOR: Pale yellow

pH: Not Established

PERCENT VOLATILE: 0.77

VAPOR PRESSURE: < 0.01 mmHg at 20°C (68°F)

VAPOR DENSITY: Not Established

BOILING POINT: Not Established

SOLUBILITY IN WATER: Slightly soluble

SPECIFIC GRAVITY: 1.030 (water=1) at 25°C (77°F)

VISCOSITY: 850 Centipoise at 25°C (77°F)

(VOC): 8.000 g/l Reference EPA Method 24

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: Not Established

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) |
|--|-----------------------------|----------------------------------|-----------------------------------|
| Polyether polyol | Not Established | Not Established | Not Established |
| Di-(methylthio)toluenediamine | 1515 mg/kg | > 2000 mg/kg | Not Established |
| Phenyl mercuric neodecanoate (35% as Hg) | 25 to 200 mg/kg | Not Established | Not Established |

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY: Not Established

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, Section 261.7 or state regulation 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

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 CFR Part 372:

EPCRA SECTION 313 SUPPLIER NOTIFICATION

| Chemical Name | Wt. % | CAS |
|--|-------|-------------|
| Phenyl mercuric neodecanoate (35% as Hg) | 0.155 | 026545-49-3 |

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 |
|--|-------|--------------------------|
| Phenyl mercuric neodecanoate (35% as Hg) | 0.155 | ● Developmental Toxicity |

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

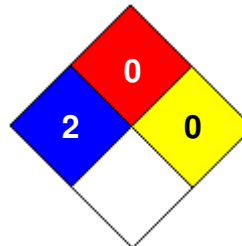
PREPARED BY: Gus Alidad

REVISION SUMMARY: New MSDS

HMIS RATING

| | | |
|-----------------------------|--------------------------|----------|
| HEALTH: | <input type="checkbox"/> | 2 |
| FLAMMABILITY: | | 0 |
| REACTIVITY: | | 0 |
| PERSONAL PROTECTION: | | X |

NFPA CODES



HMIS RATINGS NOTES: Personal Protection: See Section 8

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