

Material Safety Data Sheet

F-32 PART A

Date of Preparation: 11/22/2004

Revision: 11/22/2004

Section 1 - Chemical Product and Company Identification

Product Name: F-32 PART A

Product Class: Polyurethane resin

Chemical Type: Aromatic diisocyanate terminated prepolymer, plasticizer mixture

Manufacturer: BJB Enterprises, Inc., 14791 Franklin Avenue, Tustin, CA 92780, Phone (714) 734-8450, Fax (714) 734-8929, (M-Th: 8-4:30, F: 7:30-4), Emergency Phone: Chemtrec (800) 424-9300 or (703) 527-3887

Section 2 - Composition / Information on Ingredients

| Ingredient Name | CASRN | % wt |
|--|-------------|---------|
| 1. Modified MDI | Proprietary | 50 - 60 |
| 2. Phthalate ester mixture | Proprietary | 30-40 |
| 3. 4,4' - Diphenylmethane-Diisocyanate | 101-68-8 | 10 - 20 |
| 4. Chlorinated paraffin | 63449-39-8 | 10 - 20 |

Trace Impurities: N/A

| Ingredient | OSHA PEL | | ACGIH TLV | | NIOSH REL | | NIOSH IDLH |
|------------|---------------------|------|---------------------|------|-----------|------|------------|
| | TWA | STEL | TWA | STEL | TWA | STEL | |
| #1 | NE | NE | NE | NE | NE | NE | NE |
| #2 | 5 mg/m ³ | NE | 5 mg/m ³ | NE | NE | NE | NE |
| #3 | 0.02 ppm | NE | 0.005 ppm | NE | NE | NE | NE |
| #4 | NE | NE | NE | NE | NE | NE | NE |

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Pale yellow liquid; Odor: Slight sweet odor; Avoid skin contact. Avoid breathing vapors. May cause eye and skin irritation. Harmful if inhaled. Avoid breathing fumes over open container. Use in well-ventilated areas.

HMIS
H 2
F 1
R 1
PPE[†]
[†]Sec. 8

Potential Health Effects

Primary Entry Routes: Eye and skin contact; inhalation of vapors, accidental ingestion.

Inhalation/Ingestion: Excessive vapors caused by heat or spray mist can cause respiratory problems.

Eye: May cause irritation.

Skin: May cause irritation and possible allergic sensitivity with repeated contact.

Medical Conditions Aggravated by Long-Term Exposure: None known

Section 4 - First Aid Measures

Inhalation: Not likely. Remove to fresh air environment.

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.

Eye Contact: Flush eyes with clean, lukewarm water for 15 minutes. Obtain medical attention if irritation develops.

Skin Contact: Remove contaminated clothing and wash affected areas well with soap and water. Launder contaminated clothing before use.

Note to Physicians: Treat any ill effects symptomatically.

Section 5 - Fire-Fighting Measures

Flash Point/Method: >200°F (>93°C) closed cup

Extinguishing Media: Water, carbon dioxide, or dry chemical.

Unusual Fire or Explosion Hazards: Avoid contact with strong oxidizers and strong acids, as sudden reaction may result in fire and toxic fumes.

Fire-Fighting Instructions: 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.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Provide adequate ventilation and wear personal protective equipment. Evacuate personnel as a precaution. Prevent product spill from entering sewers, streams, or drinking water supplies. Collect liquid or soak up with inert filler or an absorbent, such as dry earth, sand, or oil absorbent (sweeping) compound. Collect material into suitable containers for disposal. Wash area with dilute ammonia solution.

Containment: For large spills, dike ahead of liquid spill for later neutralization, absorption, clean up, and disposal.

Section 7 - Handling and Storage

Handling Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing vapor over open container.

Storage Requirements: Store in a cool, dry place away from excessive heat in original or similar waterproof containers. 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.

Section 8 - Exposure Controls / Personal Protection

Eye Protection Requirements: Safety goggles or glasses are recommended. Plastic face shield should be worn for complete face protection.

Skin Protection Requirements: Impermeable gloves should be worn. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Ventilation/Respiratory Requirements: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH certified) 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).

Additional Protective Measures: Safety showers and eye wash stations should be easily accessible to the work area. Training is important. Follow all label precautions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Pale yellow; Sweet

Vapor Pressure: <0.001 mm Hg at 68°F (20°C)

Specific Gravity (H₂O=1): 1.09

pH: N/A

Water Solubility: Reacts with water

Boiling Point: NE

Viscosity: 500 cps @ 77°F (25°C)

% Volatile: <1.0

V.O.C. (ref EPA meth 24): 11 g/l

Section 10 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Polymerization may occur.

Chemical Incompatibilities/Conditions to Avoid: Moisture, acids and amines. Avoid contact with strong oxidizers and strong acids as sudden reaction may result in fire and toxic fumes.

Section 11- Toxicological Information

No Toxicological Information Available

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: Landfill burial unless prohibited. Dispose of in compliance with federal, state, or local environmental control regulations.

Section 14 - Transport Information

DOT
Not regulated

IATA/ICAO
Not regulated

IMO/IMDG
Not regulated

Section 15 - Regulatory Information**U.S. Federal Regulations:****OSHA:**

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

SARA TITLE III:

Sections 311/312 Hazard Classification:

None

Section 313: 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:

4,4' - Diphenylmethane - Diisocyanate CAS# - 101-68-8 20% (max)

TSCA: This product or its components are listed in or exempt from the TSCA inventory requirements.

This product contains the following substances subject to export notification under Section 12 (b) of TSCA:

None

Section 16 - Other Information

Reason for Issue: New Issue

Prepared By: M. Rose

Approval Date: 11/22/2004

Supersedes Date: N/A

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