

Material Safety Data Sheet

F-60 PART A

Date of Preparation: 12/02/2003

Revision: 12/02/2003

Section 1 - Chemical Product and Company Identification

Product Name: F-60 PART A

Product Class: Polyurethane Resin

Chemical Type: Aromatic diisocyanate, urethane polymer ester 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. Butyl Benzyl Phthalate (ester) | 85-68-7 | <30 |
| 2. Diphenylmethane-Diisocyanate (MDI) | 101-68-8 | 20-25 |
| 3. Modified MDI Prepolymer | Not Listed | 20-25 |

Trace Impurities: None

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

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Color: translucent pale yellow; Form: liquid; Odor: slight; May cause eye and skin irritation; Use in well ventilated areas; Avoid breathing vapors. Avoid contact with strong oxidizers and strong acids, as sudden reaction may result in fire and toxic fumes.

HMIS

H 2

F 1

R 1

PPE†

†Sec. 8

Potential Health Effects

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

Eye: May cause irritation.

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

Inhalation/Ingestion: Not likely. Excessive vapors caused by heat or spray mist can cause respiratory problems/ingestion may cause irritation to gastrointestinal tract. Considered non-toxic to ingestion.

Carcinogenicity: The components of this product are not listed by NTP, IARC, or regulated as a carcinogen by OSHA.

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 (low pressure) for 15 minutes. Obtain medical attention if irritation develops.

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

Note to Physician: Treat any ill effects symptomatically.

Section 5 - Fire-Fighting Measures

Flash Point/Method: >230°F (110°C) T.C.C.

Extinguishing Media: Water spray, carbon dioxide, dry chemical, or alcohol foam

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.

Section 7 - Handling and Storage

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

Handling/Storage Precautions: 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 - Personal Protection

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

Skin Protection Requirements: Impermeable gloves. 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 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. Working training is important. Follow all label precautions.

Section 9 - Physical and Chemical Properties

Physical State: Oily Liquid

Appearance and Odor: Translucent pale yellow/slight

Vapor Pressure: <1.0mm Hg at 212°F (100°C)

Vapor Density (Air=1): N/A

Specific Gravity (H₂O=1): 1.13 g/cc

pH: N/A

Water Solubility: very slight/reacts slowly

Boiling Point: >482°F (250°C) @10mm Hg

Freezing/Melting Point: ND

Viscosity: 550 cps

% Volatile: Trace, under normal temperatures and pressures

V.O.C. (per EPA ref meth. 24): trace

Section 10 - Stability and Reactivity

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

Polymerization: May occur. Product may foam when exposed to heat and moisture.

Chemical Incompatibilities/Conditions to Avoid: Moisture, strong acids, amines and metal carboxylates.

Hazardous Decomposition: Not established

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:

Diphenylmethane-Diisocyanate (MDI) CAS Number – 101-68-8 25% (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: 3 year review

Prepared By: M. Rose

Approval Date: 12/02/2003

Supersedes Date: 10/11/2001

Disclaimer: This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of BJB Enterprises, Inc. The data on this sheet relates only to the specific material designated herein. BJB Enterprises, Inc. assumes no legal responsibility for use or reliance upon these data.