

Material Safety Data Sheet

F-90 PART A

Date of Preparation: 08/27/2001

Revision: 08/27/2001

Section 1 - Chemical Product and Company Identification

Product Name: F-90 PART A

Product Class: Polyurethane resin

Chemical Type: Diisocyanate terminated polyglycols in organic oil

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. Polytetramethylene glycol polymer 1,3 diisocyanatomethylbenzene terminated	68611-28-9	>50
2. Polypropylene glycol polymer 1,3 diisocyanatomethylbenzene terminated	9057-91-4	<30
3. Chlorinated paraffins	108171-27-3	<10
4. Naphtha-light aromatic	64742-95-6	2

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	NE	NE	NE	NE	NE	NE	NE
#3	NE	NE	NE	NE	NE	NE	NE
#4	400	NE	(50)	NE	NE	NE	NE

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Viscous, amber liquid; Odor: slight solvent smell; May cause irritation to skin and eyes; Burning material will generate fumes containing trace amounts of HCl, CO, and HCN.

HMIS

H 1

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 and redness.

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

Medical Conditions Aggravated by Long-Term Exposure: Acute asthma; Prior sensitization to isocyanates.

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

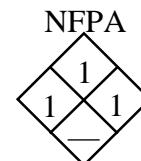
Flash Point/Method: >350°F (>177°C) COC

Extinguishing Media: Water spray, foam, dry chemical extinguisher, and carbon dioxide (for class B fires).

Unusual Fire or Explosion Hazards: Burning material will generate fumes containing trace amounts of HCl (hydrochloric acid), CO, and HCN.

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.

Decontamination Solution: Dilute household ammonia in mild detergent solution.

Section 7 - Handling and Storage

Handling Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing vapor over open container. Avoid moisture contamination. Purge containers with inert dry gas before resealing.

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 Requirements: Use in a well-ventilated area. Mechanical ventilation preferred.

Respiratory Requirements: Normally not required in well-ventilated areas. 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: Viscous liquid

Appearance and Odor: Amber/Slight solvent smell.

Vapor Pressure: <1 mm Hg at 302°F (150°C)

Specific Gravity (H₂O=1): 1.09

pH: N/A

Water Solubility: Insoluble; Reacts slowly with water to liberate carbon dioxide gas.

Boiling Point: >371°F (>190°C) @ 10 mm Hg

Freezing/Melting Point: N/A

Viscosity: 6,000 cps @ 77°F (25°C)

% Volatile: 2.5

V.O.C. (ref EPA meth 24): 23 g/L

Section 10 - Stability and Reactivity

Stability: F-90 PART A is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization may occur with amines, epoxy hardeners, high heat and moisture.

Chemical Incompatibilities/Conditions to Avoid: Acids, oxidizers, amines, and strong bases.

Hazardous Decomposition: Thermal oxidative decomposition can produce fumes containing HCl (hydrochloric acid), CO, and HCN.

Section 11- Toxicological Information

No Toxicological Information Available

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: 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:

None

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: Revised Section 7

Prepared By: S.F. Marks

Approval Date: 08/27/2001

Supersedes Date: 05/19/2000

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.