

SAFETY DATA SHEET



Date Issued : 6/4/2014
MSDS No : F-105 PART A

F-105 PART A

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: F-105 PART A
GENERAL USE: Polyurethane resin

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 CCN# 2820

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Not a dangerous substance according to GHS.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE AND ODOR: Pale yellow liquid with a slight odor.

IMMEDIATE CONCERNS: Avoid eye and skin contact. Avoid breathing vapors. May cause eye and skin irritation. Use in well ventilated areas. Reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: May be harmful if swallowed.

INHALATION: May be harmful if inhaled. May cause respiratory tract irritation.

MEDICAL CONDITIONS AGGRAVATED: None Known

ROUTES OF ENTRY: Eye and skin contact, inhalation of vapors, or accidental ingestion.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polyurethane prepolymer	30 - 60	Proprietary
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	30 - 60	68515-49-1
Phosphoric Acid, Triethyl Ester	1 - 5	78-40-0
Toluene-2,6-diisocyanate	< 0.039	91-08-7
Toluene-2,4-diisocyanate	< 0.039	584-84-9

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. Get medical attention if irritation develops.

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SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if irritation or rash develops. Wash clothing before reuse.

INGESTION: If swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.

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

EXTINGUISHING MEDIA: Alcohol resistant foam, carbon dioxide, dry chemical, dry sand, or limestone powder.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, and phosphorus oxides.

EXPLOSION HAZARDS: Material will react with water which produces carbon dioxide gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may rupture if overheated.

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.

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).

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not discharge into drains or rivers.

GENERAL PROCEDURES: Refer to section 8 of SDS for personal protection details.

RELEASE NOTES: Composition and extent of any spill should be evaluated against local regulations and reported to the proper agencies, if necessary.

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 a dry and well-ventilated 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.

STORAGE TEMPERATURE: 65-80°F (18-27°C)

SHELF LIFE: 6 months from date of shipment under manufacturers recommended storage conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

F-105 PART A**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Polyurethane prepolymer	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	TWA	NE	NE	NE	NE	NE	5
	STEL	NE	NE	NE	NE	NE	NE
Phosphoric Acid, Triethyl Ester	TWA	NE	NE	NE	NE	NE	NE
	STEL	NE	NE	NE	NE	NE	NE
Toluene-2,6-diisocyanate	TWA	NE	NE	0.005	NE	NE	NE
	STEL	NE	NE	0.02	NE	NE	NE
Toluene-2,4-diisocyanate	TWA	0.02	0.14	0.005	NE	NE	NE
	STEL	NE	NE	0.02	NE	NE	NE

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: Slight

COLOR: Pale yellow

pH: Not Applicable

PERCENT VOLATILE: Nil

FLASHPOINT AND METHOD: > 160°C (320°F) Pensky-Martens CC

VAPOR PRESSURE: < 1 mmHg at 21°C (70°F)

VAPOR DENSITY: Not Established

BOILING POINT: > 250°C (482°F)

SOLUBILITY IN WATER: Reacts slightly with water

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SPECIFIC GRAVITY: 1.003 (water=1) at 25°C (77°F)

VISCOSITY: 500 Centipoise at 25°C (77°F)

VOC (Volatile Organic Compound): Nil 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: Product may foam when exposed to heat and moisture.

CONDITIONS TO AVOID: High temperatures, moisture, and freezing conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous reactions will not occur under normal transport or storage conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, and phosphorus oxides.

INCOMPATIBLE MATERIALS: Water, alcohols, oxidizers, acids and alkalis.

11. TOXICOLOGICAL INFORMATION**TOXICITY TO ANIMALS**

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Polyurethane prepolymer	Not Established	Not Established	Not Established
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	> 10 g/kg	> 3.16 g/kg	> 0.13 mg/l
Phosphoric Acid, Triethyl Ester	1165 mg/kg	Not Established	8.82 mg/l (4 h)
Toluene-2,6-diisocyanate	> 5000 mg/kg	> 4000 mg/kg	> 480 mg/kg
Toluene-2,4-diisocyanate	> 5000 mg/kg	> 4000 mg/kg	> 480 mg/kg

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Toluene-2,6-diisocyanate	2	2B
Toluene-2,4-diisocyanate	2	2B

IARC: This product contains substances that are classified as possible carcinogens to humans.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available.

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.

BIOACCUMULATION/ACCUMULATION: No data available.

DISTRIBUTION: No data available.

CHEMICAL FATE INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protections and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

F-105 PART A**DOT (DEPARTMENT OF TRANSPORTATION) LAND:** Not Regulated**AIR (ICAO/IATA):** Not Regulated**VESSEL (IMO/IMDG):** Not Regulated**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** None Known**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:
None**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
Toluene-2,6-diisocyanate	< 0.039	100 lbs.
Toluene-2,4-diisocyanate	< 0.039	100 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)**TSCA REGULATORY:** This product contains chemical(s) subject to TSCA Section 12(b) export notification:
None**TSCA STATUS:** This product or its components are listed in or exempt from the TSCA inventory requirements.**CLEAN AIR ACT**

Chemical Name	Wt. %	CAS
Toluene-2,6-diisocyanate	< 0.039	91-08-7
Toluene-2,4-diisocyanate	< 0.039	584-84-9

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):

Chemical Name	Wt. %	Listed
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	30 - 60	● Developmental Toxicity

OSHA HAZARD COMM. RULE: The contents of the SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.**CANADA****WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.**WHMIS CLASS:** Does not meet criteria.**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components in this product are listed in or exempted from the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).**GENERAL COMMENTS:****DIDP RESTRICTIONS:** This product contains diisodecyl phthalate (DIDP), CAS# 68515-49-1 EINECS# 271-091-4. In the U.S., there is an

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interim prohibition on DIDP above 0.1 percent by weight (one thousand parts per million) in toys intended for children age 12 and under that can be placed in a child's mouth and child care articles for children age 3 and under [H.R. 4040, The Consumer Safety Improvement Act of 2008]. In the EU, DIDP shall not be used as substance or as constituents of preparations, at concentrations of greater than 0.1 percent by weight (one thousand parts per million) of the plasticized material, in toys and child care articles which can be place in the mouth by children. Such toys and child care articles containing DIDP in concentrations greater than the limit mentioned above shall not be placed on the market [Directive 2005/84/EC].

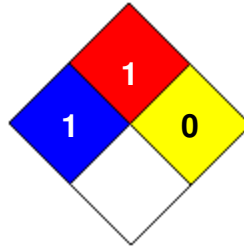
16. OTHER INFORMATION

REASON FOR ISSUE: New Issue

HMIS RATING

HEALTH	<input type="text" value=""/>	1
FLAMMABILITY	<input type="text" value=""/>	1
PHYSICAL HAZARD	<input type="text" value=""/>	0
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	

NFPA CODES



HMIS RATINGS NOTES: Personal Protection: See Section 8

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