

# Material Safety Data Sheet

## SP-200 PART A

Date of Preparation: 10/09/2001

Revision: 10/09/2001

### Section 1 - Chemical Product and Company Identification

**Product Name:** SP-200 PART A

**Product Class:** Polyurethane resin

**Chemical Type:** Aromatic diisocyanate; Isocyanate polymer 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. Methylene diphenyl diisocyanate (MDI)	101-68-8	<50
2. Modified MDI	26447-40-5	<50

**Trace Impurities:** N/A

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
#1	0.02 ppm (ceiling)	NE	0.005 ppm 0.055 mg/m <sup>3</sup>	NE	NE	NE	NE
#2	NE	NE	NE	NE	NE	NE	NE

### Section 3 - Hazards Identification

#### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Pale yellow liquid; Odor: slight sweet; Avoid skin contact. Avoid breathing vapors. May cause eye and skin irritation. Harmful if inhaled. Use in well-ventilated areas. Burning material will generate toxic fumes/gases containing HCl, CO, and traces of HCN.

**HMIS**  
**H** 2  
**F** 1  
**R** 1  
**PPE**<sup>†</sup>  
<sup>†</sup>Sec. 8

#### Potential Health Effects

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

**Inhalation/Ingestion:** Vapors induced by heating or spraying can cause respiratory irritation; practically non-toxic.

**Eye:** May cause possible irritation and redness.

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

**Medical Conditions Aggravated by Long-Term Exposure:** Acute asthma or prior sensitization to isocyanates (skin or inhalation)

### 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 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. Wash contaminated clothing before use.

### Section 5 - Fire-Fighting Measures

**Flash Point/Method:** >250°F (121°C) PMCC

**Extinguishing Media:** Foam, carbon dioxide, or water spray. Dry chemical for class B fires.

**Unusual Fire or Explosion Hazards:** Burning material will generate toxic fumes/gases containing HCl, CO, and traces of 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:** Household ammonia solution in soapy water or alcohol/water mixture.

## Section 7 - Handling and Storage

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

**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. Use dry purge when resealing.

**Shelf life:** 6 months, from date of shipment, under manufacturers recommended storage conditions.

## Section 8 - Exposure Controls / Personal Protection

**Eye Protection Requirements:** Liquid chemical goggles. Vapor resistant goggles should be worn when contact lenses are in use. In a splash hazard environment, chemical goggles should be used in combination with a full face-shield.

**Skin Protection Requirements:** Permeation resistant gloves (butyl rubber, nitrile rubber or polyvinyl alcohol). Note that PVA degrades in water. Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered by the cream to a minimum.

**Ventilation Requirements:** Local exhaust should be used to maintain levels below the TLV whenever MDI is processed, heated or spray applied. Standard reference sources regarding industrial ventilation (i.e., ACGIH Industrial Ventilation) should be consulted for guidance about adequate ventilation.

**Respiratory Requirements:** Concentrations greater than the TLV can occur when MDI is sprayed, heated or used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV or are not known, respiratory protection must be worn. A fresh air hood with a positive pressure supply is recommended. In an emergency situation, a self-contained breathing apparatus may be used. MDI has poor warning properties, since the concentration at which MDI can be smelled is substantially higher than the maximum exposure limit. Observe OSHA regulations for respirator use (29 CFR 1910.134)

**Monitoring:** Isocyanate exposure levels may require monitoring.

**Medical Surveillance:** Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted.

**Additional Protective Measures:** Safety showers and eyewash stations should be available. Educate and train employees in safe use of product. Follow all label instructions.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance and Odor:** Pale yellow oil; slight sweet

**Vapor Pressure:** <0.0001 mm Hg at 77°F (25°C)

**Specific Gravity (H<sub>2</sub>O=1):** 1.19

**pH:** N/A

**Water Solubility:** Reacts with water slowly

**Boiling Point:** 644°F (340°C) decomposes

**Viscosity:** 550 cps

**% Volatile:** <1.0

**V.O.C. (ref EPA meth 24):** 10 gm/liter

## Section 10 - Stability and Reactivity

**Stability:** SP-200 PARTA is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization may occur in the presence of water and alkali or metal salts.

**Chemical Incompatibilities/Conditions to Avoid:** Water, strong acids and bases, alcohols, and amines.

**Hazardous Decomposition:** Thermal oxidative decomposition can produce toxic fumes/gases containing HCl, CO, and traces of HCN.

**Section 11- Toxicological Information**

No Toxicological Information Available

**Section 12 - Ecological Information**

No Ecological Information Available

**Section 13 - Disposal Considerations**

**Waste Disposal Method:** Collect liquid or solidify and package for disposal in compliance with federal, state, or local environmental control regulations. This material is not a hazardous waste under RCRA 40 CFF261.

**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 EPCRA, Section 313 and 40 CFR Part 372:

Methylene diphenyl diisocyanate (MDI)      CAS# 101-68-8      50% (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:** Revised Sections 3, 5, 7, 8, 9, & 15

**Prepared By:** S.F. Marks

**Approval Date:** 10/17/2001

**Supersedes Date:** 04/22/1999

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