

Material Safety Data Sheet

WC-788 PART A

Date of Preparation: 02/01/2005

Revision: 02/01/2005

Section 1 - Chemical Product and Company Identification

Product Name: WC-788 PART A

Product Class: Polyurethane Resin

Chemical Type: Polyglycol, isocyanate terminated/aliphatic diisocyanate 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. Dicyclohexylmethane 4, 4'-diisocyanate	5124-30-1	70±2

Trace Impurities: N/A

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
#1	N/E	N/E	0.05 mg/m ³	N/E	N/E	N/E	N/E

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Clear liquid; Odor: Negligible; May cause irritation to skin and eyes. Use in well ventilated areas. Toxic gases/fumes may be generated during combustion or high heat exposure.

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Potential Health Effects

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

Inhalation/Ingestion: Irritation to respiratory tract, acute or delayed asthmatic symptoms/possible corrosive to gastric tract.

Eye: May cause redness/irritation, possible tearing or burning sensation.

Skin: May cause irritation from long term or repeated exposure. Rash may develop. Sensitization is possible in some individuals.

Medical Conditions Aggravated by Long-Term Exposure: Chronic respiratory problems; 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: 392° F (200°C) PMCC

Extinguishing Media: Dry Chemical; Carbon Dioxide; Foam; Water spray for large fires.

Unusual Fire or Explosion Hazards: Toxic fumes/gases may be generated during combustion or high heat exposure.

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 and detergent or paint thinner (Mineral Spirits) with detergent.

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

Decontamination Solution: Dilute ammonia solution in water and detergent or paint thinner (Mineral Spirits) and detergent.

Section 7 - Handling and Storage

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

Storage Temperature: Do not store below 50°F (10°C) as possible freezing may occur.

Storage Requirements: Store containers in a cool, dry place. Keep container tightly closed. Water or humid air exposure may generate pressure in containers.

Shelf life: 6 months from date of shipment in unopened containers when stored under manufacturers recommended conditions.

Section 8 - Exposure Controls / Personal Protection

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

Skin Protection Requirements: Impermeable gloves. Avoid skin contact during all handling and usage. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Ventilation Requirement: Local exhaust or well-ventilated work area must be provided.

Respiratory Requirement: Vapor TLV concentration must not be exceeded in work place. An organic vapor cartridge or fresh air supplied respirator may be necessary during any extensive handling, particularly when working with heated or curing material or spray operations. 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).

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Clear colorless/negligible odor

Vapor Pressure: <0.001 mm Hg at 75°F (24°C),
0.40 @ 300°F (149°C)

Specific Gravity (H₂O=1): 1.08

Water Solubility: Insoluble, but reacts slowly

Boiling Point: >300°F (149°C) decomposes

Viscosity: 600 ± 50 cps

% Volatile: <0.1

V.O.C. (ref EPA meth 24): 1.5 g/l

Section 10 - Stability and Reactivity

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

Polymerization: Hazardous polymerization may partially occur during long term exposure to humid air.

Chemical Incompatibilities/Conditions to Avoid: Water, amines, strong acids and bases, alcohols, and some metal compounds/Avoid unnecessary exposure to humid air.

Hazardous Decomposition: Toxic fumes/gases may be generated during combustion or high heat exposure.

Section 11- Toxicological Information

No toxicological information available

Section 12 - Ecological Information

No Ecological information available

Section 13 - Disposal Considerations

Waste Disposal: Dispose of in accordance with all federal, state, and local regulations for chemical pollution control.

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 29 CFR 1910.1200.

SARA TITLE III:

Sections 311/312 Hazard Classification:

Immediate Health Hazard, Delayed Health Hazard, Reactive Hazard

Section 313: This product contains the following substances subject to the reporting requirements of EPCRA, Section 313 and 40 CFR Part 372:

Dicyclohexylmethane-4, 4' diisocyanate	CAS# 5124-30-1	72% (max)
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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: 02/01/2005

Supersedes Date: 02/06/2002

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.

Material Safety Data Sheet

WC-788 PART B-180

Date of Preparation: 02/01/2005

Revision: 02/01/2005

Section 1 - Chemical Product and Company Identification

Product Name: WC-788 PART B-180
Product Class: Polyurethane curing agent
Chemical Type: Polyether polyol 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. Polyether polyols/proprietary mixture	Proprietary	> 95
2. Phenyl mercuric acetate	62-38-4	< 0.02 (as Hg)

Trace Impurities: N/A

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
#1	NE	NE	NE	NE	NE	NE	NE
#2	0.10 mg/m ³	NE	0.10 mg/m ³	NE	NE	NE	NE

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Clear liquid; Odorless; May cause eye and skin irritation. May be toxic by ingestion.

Potential Health Effects

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

Inhalation: Not likely. Irritation to nose and throat possible in confined areas. Heated material may cause irritation.

Ingestion: Not likely. May cause gastric irritation. May be toxic.

Eye: Possible redness and irritation. Possible tissue burn if left untreated.

Skin: Possible redness or rash upon long term or repeated contact.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing skin disorders.

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Section 4 - First Aid Measures

Inhalation: Remove to fresh air.

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. Contact a physician immediately.

Eye Contact: Flush eyes with clean, lukewarm water for 15 minutes or until irritation ceases. 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.

Section 5 - Fire-Fighting Measures

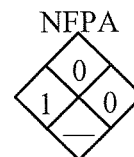
Flash Point/Method: 420°F (216°C) COC

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

Unusual Fire or Explosion Hazards: None, but nearby fires may cause pressure build up in containers, which could rupture them. Cool containers with a water spray or stream in fire conditions.

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 must wear positive pressure self-contained breathing apparatus (SCBA) for fighting large fires. Consider the use of unmanned hose holders or monitor nozzles when 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. Keep containers sealed when not in use.

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 and humidity.

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: Local exhaust or well-ventilated work area recommended.

Respiratory Requirements: Vapor TLV concentration not to be exceeded in work place. 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: Liquid

Appearance and Odor: Clear/nearly odorless

Vapor Pressure: < 1 mm Hg at 77°F (25°C)
3.5 mm Hg at 212°F (100°C)

Vapor Density (Air=1): N/A

Specific Gravity (H₂O=1): 1.03

pH: N/A

Water Solubility: Slight to negligible

Boiling Point: Not available

Freezing/Melting Point: N/A

% Volatile: < 1%

V.O.C. (ref EPA meth 24): 5 g/l

Section 10 - Stability and Reactivity

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

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities/Conditions to Avoid: Acids, strong oxidizing agents, water or moisture exposure.

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 EPCRA, Section 313 and 40 CFR Part 372:

Phenyl mercuric acetate CAS# 62-38-4 0.02% (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 2 and 15

Prepared By: M. Rose

Approval Date: 02/01/2005

Supersedes Date: 05/28/2002

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