Material Safety Data Sheet

WC-796 PART A

Date of Preparation: 02/08/2005 Revision: 02/08/2005

Section 1 - Chemical Product and Company Identification

Product Name: WC-796 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

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.

HMIS	
H	3
F	1
R	1
PPE†	

†Sec. 8

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

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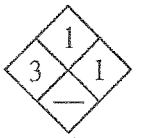

Flash Point/Method: 392° F (200°C) PMCC
Extinguishing Media: Dry Chemical; Carbon Dioxide; Foam; Water spray for large fires.
Unusual Fire or Explosion Hazards: Toxic fumes/gases may be generated during combustion or high heat exposure.
Fire-Fighting Instructions: Cool fire exposed containers with water 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

Exposure Limits:
Dicyclohexylmethane-4,4'-Diisocyanate (5124-30-1)
TWA: 0.005 ppm (ACGIH TLV)

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

Flash Point/Method: 392° F (200°C) PMCC
Physical State: Liquid
Appearance and Odor: Clear colorless/Negligible odor
Vapor Pressure: <.001 mm Hg at 77°F (25°C),
Specific Gravity (H_2O=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

Dicyclohexylmethane-4, 4'-Diisocyanate (5124-30-1)
Acute Oral Toxicity
LD50 rat: 9,900 mg/kg
Acute Inhalation Toxicity
LC50 rat: 0.29-0.30 mg/l /4 h
Toxic by inhalation of aerosols
Acute Dermal Toxicity
LD50 rat: >10,000 mg/kg
Product Sensitization
May cause sensitization by inhalation
General Toxicity Information
Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

Section 12 - Ecological Information

Dicyclohexylmethane-4, 4'-Diisocyanate (5124-30-1)

Toxicity to Fish

LC50 Brachydanio rerio: >=8.1 mg/l /96 h

Toxicity to Daphnia

ECO Daphnia magna: >8.3 mg/l

Toxicity to Algae

EC50 Scenedesmus subspicatus: >=5.0 mg/l

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	IATA/ICAO	IMO/IMDG
Not regulated	Not regulated	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)

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: New Issue
Prepared By: M. Rose
Approval Date: 02/08/2005
Supersedes Date: N/A

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-796 WM RUST RED PART B

Date of Preparation: 02/08/2005 Revision: 02/08/2005

Section 1 - Chemical Product and Company Identification

Product Name: WC-796 WM RUST RED PART B
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 polyol mixture	Proprietary	95-100
2. Phenyl mercuric acetate	62-38-4	<0.1 (as Hg)

Section 3 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

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

HMIS	
H	1
F	1
R	0
PPE†	
†Sec. 8	

Potential Health Effects

Primary Entry Routes: Eye and skin contact; inhalation of vapors, accidental ingestion.
Inhalation: Not likely. Heated material may cause irritation.
Ingestion: Not likely. May cause gastric irritation. May be toxic.
Eye: Possible redness and irritation.
Skin: Possible redness or rash upon repeated contact. May cause skin dryness.
Medical Conditions Aggravated by Long-Term Exposure: Pre-existing skin disorders.

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.
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.

Section 5 - Fire-Fighting Measures

Flash Point/Method: >400°F (204°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.

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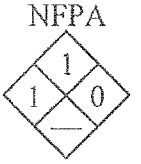

Section 6 - Accidental Release Measures

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. Hygroscopic material.

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

Exposure Limits:
Polyether polyol mixture (Proprietary):
Not Established
Phenyl mercuric acetate (62-38-4):
TWA: 0.1 mg/m^3 (OSHA PEL)
TWA: 0.1 mg/m^3 (ACGIH TLV)

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

Flash Point/Method: >400°F (204°C) COC
Physical State: Liquid
Appearance and Odor: Rust red/Odorless
Vapor Pressure: <1 mm Hg at 77°F (25°C)
Vapor Density (Air=1): NE
Specific Gravity (H_2O=1): 1.03
pH: NE
Water Solubility: Slight to negligible
Boiling Point: NE
Freezing/Melting Point: NE
Viscosity: 550 cps
% Volatile: <0.5
V.O.C. (ref EPA meth 24): <4 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 oxidizers, permanganate and chromate salts. Avoid excessive exposure to damp air.

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	IATA/ICAO	IMO/IMDG
Not regulated	Not regulated	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	0.1% (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: New issue
Prepared By: M. Rose
Approval Date: 02/08/2005
Supersedes Date: N/A

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