

Material Safety Data Sheet

WC-575 PART A

Date of Preparation: 07/15/2004

Revision: 07/15/2004

Section 1 - Chemical Product and Company Identification

Product Name: WC-575 PART A

Product Class: Polyurethane Resin

Chemical Type: Aliphatic isocyanate terminated polyetherglycol

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	<30
2. Naphtha, light aromatic	64742-95-6	<3

Trace Impurities: N/A

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		OTHER CEILING
	TWA	STEL	TWA	STEL	TWA	STEL	
#1	NE	NE	0.005 ppm	NE	NE	NE	NE
#2	NE	NE	NE	NE	NE	NE	NE

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Colorless viscous liquid; Odor: Negligible; Mild eye and skin irritant. May cause delayed allergic skin or respiratory reaction. Harmful if swallowed. Avoid contact with strong acids and amines as sudden reaction may result in fire and toxic fumes. Combustion products are hazardous.

HMIS

H 3

F 1

R 1

PPE^{†1}

[†]Sec. 8

Potential Health Effects

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

Inhalation/Ingestion: May cause irritation to respiratory tract, acute or delayed asthmatic symptoms. Possible sensitization/harmful if ingested.

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

Skin: May cause redness, swelling, or rash. Allergic reaction or sensitization may occur in some individuals.

Medical Conditions Aggravated by Long-Term Exposure: Existing skin allergies, asthma, or prior sensitization to isocyanates.

Section 4 - First Aid Measures

Inhalation: Move individual to fresh air. Supply oxygen if breathing difficulties occur. Obtain medical attention if immediate or delayed irritation or asthmatic symptoms occur.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person.

Eye Contact: Flush with clean, lukewarm water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected areas with soap and water twice. Wash contaminated clothing before use.

Section 5 - Fire-Fighting Measures

Flash Point/Method: 350°F (177°C) closed cup

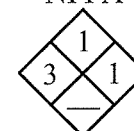
Extinguishing Media: Dry Chemical; Carbon Dioxide; Foam; Water spray for large fires.

Unusual Fire or Explosion Hazards: Avoid contact with strong oxidizers and strong acids as reaction may result in fire and toxic fumes. Combustion products are hazardous.

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.

NFPA



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 far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Section 7 - Handling and Storage

Handling Precautions: Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors directly over container.

Storage Temperature (Min/Max): Not applicable.

Storage Requirements: Store containers in a cool, dry place. Keep container tightly closed.

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. Full-face shields should be worn for complete face protection.

Skin Protection Requirements: Impermeable gloves. Avoid skin contact during all handling and storage. 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. Mechanical exhaust preferred.

Respiratory Requirement: Avoid breathing vapors. If exposures cannot be kept at a minimum, a respirator may be necessary in addition to ventilation. The use of a positive pressure air supplied respirator is mandatory when airborne isocyanate concentrations are "not known" or exceeds OSHA'S TWA of 0.005 ppm. Air purifying, organic cartridge type respirators are not generally recommended to use when handling this material without implementation of an end of life service program. Observe OSHA regulations for respirator use (29 CFR 1910.134). Employers are responsible for selecting the correct respirator for each situation.

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: Clear liquid

Odor: Negligible

Vapor Pressure: 0.001 mm Hg at 75°F (24°C)
0.04 mm Hg at 300°F (149°C)

Vapor Density: N/A

Specific Gravity (H₂O=1): 1.03

Water Solubility: Nil, reacts slowly

Boiling Point: Decomposes

Viscosity: 2,975 cps @ 77°F (25°C)

% Volatile: 1.4

V.O.C. (ref EPA meth 24): 25 g/l

Section 10 - Stability and Reactivity

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

Polymerization: May occur, non-hazardous.

Chemical Incompatibilities/Conditions to Avoid: Moisture, strong acids and organic amine compounds. Store product under inert atmosphere.

Hazardous Decomposition: Toxic fumes/gases may be generated during combustion or exposure to high heat. Combustion products are hazardous.

Section 11- Toxicological Information

No toxicological information available

Section 12 - Ecological Information

No Ecological information available

Section 13 - Disposal Considerations

Waste Disposal: Landfill burial or incineration, unless prohibited. 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.

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:

Dicyclohexylmethane-4, 4' diisocyanate	CAS# 5124-30-1	30% (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: Revised Sections 3 & 5

Prepared By: M. Rose

Approval Date: 07/15/2004

Supersedes Date: 08/16/2001

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-575 PART B

Date of Preparation: 07/15/2004

Revision: 07/15/2004

Section 1 - Chemical Product and Company Identification

Product Name: WC-575 PART B

Product Class: Polyol

Chemical Type: Polyether polyol (polyglycols) 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. Polypropylene glycol	25322-69-4	85 ± 5
2. Phenyl mercuric acetate	62-38-4	<0.2 (as Hg)

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	0.1 mg/m ³	NE	0.1 mg/m ³	NE	NE	NE	NE

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Cloudy-clear liquid; Odor: Glycol odor; Avoid skin contact. Avoid breathing vapors. May cause eye and skin irritation. Harmful if inhaled. Use in well-ventilated areas. Burning material will generate trace amounts of toxic fumes/gases.

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/Ingestion: Excessive vapors caused by heat or spray mist can cause respiratory problems.

Eye: May cause irritation.

Skin: May cause irritation and dryness.

Medical Conditions Aggravated by Long-Term Exposure: None known

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: Above 350°F (177°C) S.E.T.A.

Autoignition Temperature: N/A

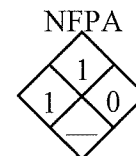
Flammability Classification: N/A

Extinguishing Media: Water spray, foam, or dry chemical extinguisher.

Unusual Fire or Explosion Hazards: Combustible liquid when hot. Decomposition and combustion products may be hazardous.

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.

Section 7 - Handling and Storage

Handling Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing vapor over open container. Keep material dry. Avoid humid air exposure.

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

Respiratory Requirement: Avoid breathing vapors. If exposures cannot be kept at a minimum, a respirator may be necessary in addition to ventilation. The use of a positive pressure air supplied respirator is mandatory when airborne isocyanate concentrations are "not known" or exceeds OSHA'S TWA of 0.005 ppm. Air purifying, organic cartridge type respirators are not generally recommended to use when handling this material without implementation of an end of life service program. Observe OSHA regulations for respirator use (29 CFR 1910.134). Employers are responsible for selecting the correct respirator for each situation.

Additional Protective Measures: Safety showers and eye wash stations should be easily accessible to the work area. Training is important. Follow all label precautions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Cloudy-clear/glycol odor

Vapor Pressure: N/A at 68°F (20°C)

Specific Gravity (H₂O=1): 1.04

pH: N/A

Water Solubility: Slight

Boiling Point: NA @ 760 mm Hg (1 atm.)

% Volatile: <.1%

Viscosity: 460 cps

V.O.C. (ref EPA meth 24): 1 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: Isocyanates, oxidizers, and mineral acids.

Hazardous Decomposition: Decomposition and combustion products may be hazardous.

Section 11- Toxicological Information

No Toxicological Information Available

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: Landfill burial unless prohibited. 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	0.2% (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: Revised Sections 2 & 15

Prepared By: M. Rose

Approval Date: 07/15/2004

Supersedes Date: 08/21/2001

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.