Ciba Specialty Chemicals Corporation North America Performance Polymers

5121 San Fernando Road West Los Angeles, CA 90039

Effective Date: 4/8/98

8am to 4:30pm Phone: (818) 247-6210

24-Hour Health/Environmental Emergency Phone: 1-800-873-1138



Value beyond chemistry

MSDS No: 2235

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION Trade Name: CIBATOOL SL 5170 Material Code: FPC6056 Chemical Family: Epoxy resin and acrylate ester blend

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S	CAS#	CHEMICAL IDENTITY	EXPOSURE LIMITS					CARCINOGEN STATUS		
Н			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
A			TWA	STEL	PEL	STEL				
*	Confidential Concentration	Cycloaliphatic epoxy resin 30.00 - 60.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential Concentration	Aliphatic glycidyl ether 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential Concentration	Polyols 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential Concentration	Diacrylate esters .00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential Concentration	Acrylate esters .00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

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3. HAZARDS IDENTIFICATION

Emergency Overview: WARNING!!! Causes severe eye irritation. Causes skin irritation and possible allergic skin reaction. Harmful if inhaled. Harmful if swallowed.

Primary Route(s) of Entry: Dermal, inhalation.

Potential Health Effects: Vapor or fume can be possibly harmful if inhaled. Substance can cause substantial irritation to eyes. Substance can cause moderate irritation to skin. Substance can be possibly harmful if swallowed.

Carcinogenicity (NTP, IARC, OSHA): The chemicals listed in Section 2 are not considered to be carcinogenic by NTP, IARC, or OSHA.

Chronic: Prolonged or repeated exposure may cause skin and respiratory tract irritation and ingestion may have an effect on the nervous system.

4. FIRST AID MEASURES

Ingestion: If swallowed dilute by giving two (2) glasses water to drink. See a physician. Never give anything by mouth to an unconscious person.

Skin: For skin contact, wash with large amounts of running water, and soap, if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Discard or decontaminate clothing before re-use and destroy contaminated shoes.

Inhalation: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.

Eyes: For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

Note to Physician: Allergic dermatitis or respiratory response in susceptible individuals may be delayed. It may appear after weeks or even months of frequent and prolonged contact.

Medical Conditions Aggravated by Exposure: Allergy, eczema, eye or respiratory conditions.

5. FIRE FIGHTING MEASURES

Flash Point: > 95°C (> 203 °F) **Flash Point Method Used:** Closed Cup

Fire Fighting Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.

Fire Fighting Equipment: Use self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazards: Heat/inhibitor depletion/exposure to radiation/oxidizers can cause spontaneous polymerization generating heat and pressure. Sealed containers can explode. Avoid using a stream of water to control fire since frothing can occur.

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Hazardous Combustion Products: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate the spill area. Wear full protective equipment. Dike and absorb spill with inert material (sand, earth, etc.). Transfer to containers suitable for disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Thoroughly launder clothing before reuse. Keep spills and runoffs out of municipal sewers and open bodies of water. If spilled on a porous surface, ground contamination must be considered.

7. HANDLING AND STORAGE

Signal Word: Warning!

Precautions: Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

Other Handling Information: In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Do not inhale mists. Use with adequate ventilation. For industrial use only.

Storage Information: MAXIMUM 35° C. Store indoors in a cool, dry area with adequate ventilation. Store out of direct sunlight.

Additional Information: PLEASE READ TECHNICAL DATA SHEET BEFORE HANDLING THE PRODUCT. KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Eye bath and safety shower should be available. Wear protective clothing.

Exposure Guidelines: Wash thoroughly after handling and before eating, drinking, or using tobacco products.

Skin Protection: Wear impervious gloves.

Respiratory Protection: Wear respirator (MSHA/NIOSH or approved equivalent) suitable for concentrations and type of air contaminants encountered.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: Good general mechanical ventilation and local exhaust if needed.

Emergency Response Protection: Wear breathing apparatus (MSHA/NIOSH-approved, pressure demand, self-contained or equivalent) and full protective gear.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Light Amber
Odor: Slight
Physical State: Liquid
Solubility in Water: Slight

Viscosity: ~ 185 cps at 30°C (86 °F)Vapor Pressure:< 1 mm Hg at 20°C (68 °F)Specific Gravity:1.15 (water = 1)

Evaporation Rate: (Matci = 1)

Vapor Density: > 1 VOC: < 1 %

10. STABILITY AND REACTIVITY

Conditions to Avoid: Heat, direct sunlight, UV radiation, free radical initiators, and inert gases.

Stability: Unstable

Incompatibility: Strong oxidizing agents and inert gases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

Hazardous Polymerization: May occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral Effects (LD50): >5,000 mg/Kg (rats)

Acute Dermal Toxicity (LD50): Not available.

Inhalation Toxicity (LC50): Not available

Sensitization: Allergic dermatitis or respiratory response in susceptible individuals may be delayed. It may appear after weeks or even months of frequent and prolonged contact.

Skin Irritation: Moderate irritant.

Eye Irritation: Moderate - severe.

12. ECOLOGICAL INFORMATION

Biodegradability: No information available.

Ecotoxicity: No information available.

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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate liquid; landfill or incinerate contaminated diking material in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT: Non-Bulk

Proper Shipping Name:Not Regulated

IATA: Non-Bulk

Proper Shipping Name:Not Regulated

15. REGULATORY INFORMATION

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): This product is not considered to be a hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 304 - CERCLA: This product contains no chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List).

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Immediate (acute) health hazard.

SARA Title III: Section 313 - Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status: Chemical components listed on TSCA Inventory.

TSCA Section 12(b) - Export Notification: This product does not contain any chemicals subject to Section 12(b) export notification.

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

Pennsylvania Right-to-Know: The following is required composition information:

Generic Name: Cycloaliphatic epoxy resin

CASRN: Confidential

Comment: Not on Pennsylvania Hazardous Substance List.

Generic Name: Polyols CASRN: Confidential

Comment: Not on Pennsylvania Hazardous Substance List.

Generic Name: Aliphatic glycidyl ether

CASRN: Confidential

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Comment: Not on Pennsylvania Hazardous Substance List.

Generic Name: Acrylate esters

CASRN: Confidential

Comment: Not on Pennsylvania Hazardous Substance List.

Generic Name: Diacrylate esters

CASRN: Confidential

Comment: Not on Pennsylvania Hazardous Substance List.

16. OTHER INFORMATION

MSDS No:

Reason Issued:
Prepared By:
Approved By:
Title:

2235

New Format

Matthew Austin

Rajesh S. Patel

EH&S Chemist

Other Information: L/M Codes: DR/Ns-DL0597 (D10022330)

Material Code: FPC6056

Disclaimer: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

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