

5121 San Fernando Road West
Los Angeles, CA 90039

8am to 5pm Phone: (818) 247-6210
24-Hour Health/Environmental Emergency Phone: 1-888-354-3323

Effective Date: 3/27/01

Material Safety Data Sheet

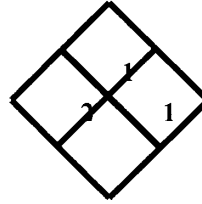
MSDS No: 60197

1. PRODUCT IDENTIFICATION

Trade Name: ARALDITE CY 8770

Material Code: FPC0427

Chemical Family: Modified Epoxy Resin



NFPA RATING

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN STATUS			
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	1333-86-4	Carbon Black	3.5 mg/m3	NE	3.5 mg/m3	NE	NE	Yes	NR	NR
	Concentration	0.00 - 1.00 % by wt								
*	2425-79-8	Oxirane, 2,2'-[1,4-butanediy]bis(oxymethylene)]bis-	NE	NE	NE	NE	NE	NR	NR	NR
	Concentration	0.00 - 10.00 % by wt								
*	25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	NE	NE	NE	NE	NE	NR	NR	NR
	Concentration	60.00 - 90.00 % by wt								

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

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 mist can cause irritation to the nose and throat. Liquid or vapor can cause substantial irritation to eyes. Substance can cause moderate irritation. Substance can be possibly harmful if swallowed.

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Chronic: Prolonged and repeated exposure can cause allergic reaction. Also, prolonged repeated exposure of substance may cause delayed and serious injury.

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, flush eyes with plenty of water for several minutes. Get medical attention if irritation occurs.

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, dry chemical, foam, water.

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

Fire and Explosion Hazards: Keep fire-exposed containers cool with water. Do NOT use a solid stream of water. A solid stream of water can spread fire.

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

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate the spill area. Wear protective clothing. Dike and absorb spill on inert material (sand, earth, etc.). Transfer to containers for disposal. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before re-use. If spilled on a porous surface, ground contamination must be considered.

7. HANDLING AND STORAGE

Signal Word: Warning !

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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: STORAGE TEMPERATURE: 35°C, maximum. Store indoors in a cool, dry area with adequate ventilation.

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.

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Low Viscosity Liquid
Color:	Black
Odor:	No Significant Odor
Solubility in Water:	Slight
Viscosity:	~ 2700 cps at 25°C (77 °F)
Vapor Pressure:	< 1 mm Hg at 20°C (68 °F)
Specific Gravity:	~ 1.14
Evaporation Rate:	< 1 (Butyl Acetate = 1)
Vapor Density:	> 1
VOC:	~ 2 % By weight

Percent Volatile: This product contains 24 gm/liter Volatile Organic Compounds (VOC). This is an estimated value.

10. STABILITY AND REACTIVITY

Conditions to Avoid: Elevated temperatures.

Stability: Stable under normal conditions.

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Incompatibility: Strong oxidizing agents and inert gases.**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, aldehydes**Hazardous Polymerization:** Will not occur.**11. TOXICOLOGICAL INFORMATION****Sensitization:** Skin sensitizer.**Carcinogenicity:** Based upon an IARC conclusion that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" and inadequate evidence of carcinogenicity in humans IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans" (group 2B). Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).**Skin Irritation:** Moderate irritant.**Eye Irritation:** Moderate - severe.**12. ECOLOGICAL INFORMATION****Biodegradability:** No information available.**Ecotoxicity:** No information available.**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**US Federal Regulations:****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.

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Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).**SARA Title III: Section 304 - CERCLA:** Not listed.**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 contains the following chemicals which are subject to Section 12(b) export notification:Chemical Name : Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-
CASRN : 1675-54-3

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemicals which are listed on the California list of Known Carcinogens and Reproductive Toxins.

Chemical Name : Oxirane, (chloromethyl)-

CASRN : 106-89-8

Common Name : Epichlorohydrin

% in Composition : 0.005

Comment : Warning! This chemical is known to the state of California to cause cancer and birth defects or other reproductive harm.

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

Chemical Name : Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane

CASRN : 25068-38-6

Common Name : Bisphenol A Diglycidyl Ether Polymer

Comment : Not on Pennsylvania Hazardous Substance List.

Chemical Name : Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis-

CASRN : 2425-79-8

Common Name : Butanediol Diglycidyl Ether

Comment : Not on Pennsylvania Hazardous Substance List.

16. OTHER INFORMATION

MSDS No:	60197
Reason Issued:	New product
Approved By:	Matthew Austin
Title:	EH&S Chemist

Other Information: L/M Codes: DR/CA2 - DL0597 (D10020032)

Material Code: FPC0427

Revision Summary:

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.