

EMS CATALOG NO: 10910  
EMS PRODUCT: Araldite 506  
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PAGE NUMBER: One of 6

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**MATERIAL SAFETY DATA SHEET**

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The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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**FOR PRODUCT AND SALES INFORMATION**

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CONTACT ELECTRON MICROSCOPY SCIENCES OFFICE ABOVE.

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**PRODUCT IDENTIFICATION**

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IDENTITY (TRADENAME): Araldite GY 506  
FAMILY/CHEMICAL NAME: Epoxide  
PRODUCT TYPE: Modified liquid epoxy resin.

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## COMPOSITION/INFORMATION ON INGREDIENTS

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CAS#	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN
		STATUS				
		ACGIH	OSHA	MFR.	IARC	NTP
		TWA	STEL	PEL	STEL	
*2426-08-6	Oxirane,(butoxymethyl	25ppm	NE	50ppm	NE	NR NR

Common Name: Butyl Glycidyl Ether

*25068-38-6	Phenol,4,4'-(1-	NE	NE	NE	NE	NE	NR	NR
	methylethylidene)bis-,							
	polymer with (chlomethyl)oxirane							

Common Name: Bisphenol A Diglycidyl Ether  
Polymer

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

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## HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW: Warning! Combustible liquid. Sensitizer - Can cause allergic skin reaction. Skin, eye and respiratory irritant. Can cause central nervous system effects.

PRIMARY ROUTE(S) OF ENTRY: Dermal, inhalation.

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## FIRST AID MEASURES

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INGESTION: If swallowed, give at least 3-4 glasses of water but do not induce vomiting. If vomiting occurs, give water again. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. Have physician determine whether vomiting or stomach evacuation necessary.

SKIN: For skin contact, wash with large amounts of running water and soap, if available, for 15 minutes. Remove contaminated clothing and shoes.

INHALATION: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

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.

OVEREXPOSURE EFFECTS: Overexposure to this product can cause skin, eye and respiratory irritation. Can cause sensitization and allergic skin reactions. In humans, inhalation from spill may cause central nervous system effects and gastrointestinal tract irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Allergy, eczema or skin conditions.

ADDITIONAL INFORMATION: Promptly remove wet contaminated non impervious clothing. Wash before reuse.

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### **FIRE FIGHTING MEASURES**

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FLASH POINT: 173oF (78oC)  
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.

FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

ACCIDENTAL RELEASE MEASURES:

Absorb onto sand or other absorbent material. Shovel into closable container for disposal. Wear protective equipment specified below. Flush contaminated area with water.

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### **HANDLING AND STORAGE**

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PRECAUTIONS:

Keep away from heat, sparks and open flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use only with good ventilation. Individuals should wash thoroughly after handling. Store in closed containers in cool well-ventilated area. Ground and bond metal containers for liquid transfer to avoid static sparks. For Industrial use only.

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

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### PERSONAL PROTECTIVE EQUIPMENT:

Wear protective equipment to prevent exposure and personal contact.

SKIN PROTECTION: Wear impervious gloves.

RESPIRATORY PROTECTION: Use NIOSH approved respirator suitable for organic vapors, if required.

EYE PROTECTION: Wear splash-proof chemical goggles.

ENGINEERING CONTROLS: Good general mechanical ventilation and local exhaust.

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## PHYSICAL AND CHEMICAL PROPERTIES

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COLOR: Clear

PHYSICAL STATE: Liquid

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 1.13 at 25oC (77oF) (H2O 1)

PERCENT VOLATILE: Nil.

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## STABILITY AND REACTIVITY

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CONDITIONS TO AVOID: Avoid strong acids or bases in bulk and elevated temperatures.

STABILITY: Stable.

INCOMPATIBILITY: Strong oxidizing agents, strong alkalis, strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes

HAZARDOUS POLYMERIZATION: Will not occur.

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## TOXICOLOGICAL INFORMATION

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ACUTE ORAL EFFECTS(LD50): (Rat) Ranges from 2000 to greater than 5000 mg/kg (components)

ACUTE DERMAL TOXICITY(LD50): (Rabbit) Greater than 2000 mg/kg (components)

INHALATION TOXICITY(LC50): (Mouse) Greater than 3500 ppm (4 hr) (component).

SENSITIZATION: (Human) Sensitizer (components)

SKIN IRRITATION: (Rabbit) irritant (component)  
EYE IRRITATION: (Rabbit) Moderate irritation (component)

#### DISPOSAL CONSIDERATIONS

Dispose in accordance with Federal, State and local regulations.

#### TRANSPORT INFORMATION

DEPT. OF TRANSPORTATION: Combustible liquid (not applicable in containers a rated capacity of 119 gallons or less).

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### REGULATORY INFORMATION

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#### OSHA STATUS:

This Material Safety Data Sheet 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.

TSCA INVENTORY STATUS: Chemical components listed on TSCA Inventory.

#### TSCA 12(b) EXPORT NOTIFICATION:

This product contains chemical(s) which is (are) regulated by TSCA 12(b) Regulation and it is required that proper export notification shall be sent to EPA prior to shipping out of the United States.

CAS NUMBER: 1675-54-3

CHEMICAL NAME: Bisphenol A Diglycidyl Ether

#### SARA TITLE III: SECTION 313 TOXIC CHEMICAL(s):

This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting under Sec. 313 (40 CFR 372) RCRA: Not a hazardous waste under RCRA (40 CFR 261)

CERCLA: Not listed.

CANADIAN INVENTORY STATUS (CEPA): All components included on the Domestic Substances List (DSL).

CALIFORNIA PROPOSITION 65: WARNING! This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

CHEMICAL NAME: Epichlorohydrin

CONCENTRATION: 500 ppm Maximum

NEW JERSEY RIGHT-to-KNOW: The following is required composition information.

CAS NUMBER: 25068-38-6

CHEMICAL NAME: Phenol, 4,4' (1-methylethylidene)bis-,polymer with (chloromethyl) oxirane

CAS NUMBER: 2426-08-6  
CHEMICAL NAME: Oxirane, (butoxymethyl)

PENNSYLVANIA RIGHT-to-KNOW: The following is required composition information.

CAS NUMBER: 25068-38-6  
CHEMICAL NAME: Phenol,4,4'-(1-methylethylidene)bis, polymer with (chloromethyl)oxirane  
COMMON NAME: Bisphenol A Epoxy Resin  
COMMENT: Not on Pennsylvania Hazardous Substance List.

CAS NUMBER: 2426-08-6  
CHEMICAL NAME: Oxirane,(butoxymethyl)-  
COMMENT: Hazardous Substance.

CAS NUMBER: 106-89-8  
CHEMICAL NAME: Oxirane,(chloromethyl)-  
COMMON NAME: Epichlorohydrin  
COMMENT: Environmental and Special Hazard