

EMS CATALOG NO: 10920  
EMS PRODUCT: Araldite 6005  
DATE: 10/01/2008  
PAGE NUMBER: One of 5

MATERIAL SAFETY DATA SHEET

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 6005  
FAMILY/CHEMICAL NAME: Epoxide  
PRODUCT TYPE: Liquid epoxy resin.

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HAZARDOUS INGREDIENTS

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SPECIFIC CHEMICAL NAME: 4-(1,1-Dimethylethyl)Phenoxymethyl Oxirane  
CAS #: 3101-60-8  
COMMON NAME: P-Tertbutylphenyl Glycidyl Ether  
EXPOSURE LIMITS: OSHA PEL: Not established  
ACGIH TLV: Not established  
CARCINOGENICITY: This chemical is not considered to be Carcinogenic by NTP, IARC, OR OSHA.

**SPECIFIC CHEMICAL NAME:** Phenol,4,4'-(1-Methylethylidene)Bis-,  
Polymer with (Chloromethyl)Oxirane  
CAS#: 25068-38-6

**COMMON NAME:** Bisphenol A Diglycidyl Ether Polymer

**EXPOSURE LIMITS:** OSHA PEL: Not established  
ACGIH TLV: Not established

**CARCINOGENICITY:** This chemical is not considered to be  
carcinogenic by IARC.

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PHYSICAL DATA

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**APPEARANCE AND ODOR:** Clear Liquid, Slight odor.  
**PERCENT VOLATILE:** nil.  
**SOLUBILITY IN WATER:** Negligible  
**SPECIFIC GRAVITY:** 1.16 at 25oC (H20=1)

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FIRE AND EXPLOSION HAZARD DATA

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**FLASH POINT:** 390oF Closed Cup

**EXTINGUISHING MEDIA:** Carbon dioxide, foam, dry chemical, water  
spray.

**FIRE FIGHTING  
PROCEDURES-SPECIAL:** Use self-contained breathing apparatus.

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

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REACTIVITY DATA

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**STABILITY:** Stable  
**CONDITIONS TO AVOID:** High Temperatures.

**INCOMPATIBILITY:** Strong oxidizing agent.

**HAZARDOUS  
DECOMPOSITION PRODUCTS:** Carbon Monoxide, Carbon Dioxide,  
Aldehydes.

**HAZARDOUS POLYMERIZATION:  
CONDITIONS TO AVOID:** Will not occur.  
Strong acids or bases in bulk.

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## HEALTH HAZARD DATA

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PRIMARY ROUTES OF EXPOSURE: DERMAL

ORAL LD50: (Rat) >5,000 MG/KG

DERMAL LD50: (Rabbit) >6,000 MG/KG

SKIN IRRITATION: (Rabbit) Mild irritation

EYE IRRITATION: (Rabbit) Not an irritant.

SENSITIZATION: (Guinea Pig) Skin Sensitizer.

INHALATION LC50:

(Rat) > 3466 mg/m<sup>3</sup> (Component).

### OVEREXPOSURE EFFECTS:

Overexposure to this material can cause sensitization and allergic skin reaction. May cause skin irritation.

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Overexposure to this material can cause sensitization and allergic skin reaction. May cause skin irritation.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Allergy, eczema or skin conditions.

### EMERGENCY AND FIRST AID PROCEDURES:

**EYES:** For eye contact, flush eyes with plenty of water for several minutes. Get medical attention if irritation occurs.

**SKIN:** For skin contact, wash affected areas with plenty of water and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes before re-use. Get medical attention if irritation occurs.

**INGESTION:** If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person.

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

**OTHER:** Promptly remove wet contaminated non-impervious clothing. Wash before reuse.

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## SPILL OR LEAK PROCEDURES

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### SPILL PROCEDURES:

Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

WASTE DISPOSAL METHODS:

Dispose in accordance with Federal, State and local Regulations.

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SPECIAL PROTECTION INFORMATION

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VENTILATION: Good general mechanical ventilation and local exhaust.

PROTECTIVE GLOVES: Wear impervious gloves.

EYE PROTECTION: Wear splash-proof chemical goggles.

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

OTHER PROTECTIVE EQUIPMENT: Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream recommended.

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SPECIAL PRECAUTIONS

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HMIS CODE: HEALTH: 2 FIRE: 1 REACTIVITY: 0

HANDLING, SHIPPING AND STORING PRECAUTIONS:

WARNING! SENSITIZER - MAY CAUSE ALLERGIC SKIN REACTION.

Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use only with good ventilation. Store in closed containers in cool, dry area in closed containers. Wash after handling. For Industrial use only.

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REGULATORY INFORMATION

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DOT CLASS: Not regulated.

RCRA STATUS: Not a hazardous waste under RCRA (40 CFR 261).

CERCLA STATUS: Not listed.

SARA/TITLE III-TOXIC CHEMICALS LIST:

This product does not contain a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).

TSCA INVENTORY STATION: Chemical components listed on TSCA inventory.

NEW JERSEY RIGHT-TO-KNOW LABELING INFORMATION:

This product contains the following:

CHEMICAL NAME: Phenol, 4,4'-(1-Methylethylidene)Bis-, Polymer  
with (Chloromethyl)oxirane

CAS NUMBER: 20568-38-6

CHEMICAL NAME: Oxirane, {{4-(1,1-Dimethylethyl)Phenoxy}Methyl}-

CAS NUMBER: 3101-60-8

PENNSYLVANIA RIGHT-TO-KNOW ACT:

The following is required composition information;

CHEMICAL NAME: 4-(1,1-Dimethylethyl)Pehnoxymethyl Oxirane

CAS NUMBER: 3101-60-8

COMMON NAME: P-Terbutylphenyl Glycidyl Ether

COMMENTS: Not on Pennsylvania Hazardous Substance List.

CHEMICAL NAME: Phenol, 4,4'-(1-Methylethylidene)Bis-, Polymer  
with (Chloromethyl)oxirane

CAS NUMBER: 25068-38-6

COMMON NAME: Bisphenol A Diglycidyl Ether Polymer

COMMENTS: Not on Pennsylvania Hazardous Substance List.