

MATERIAL SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200 AND SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 PUBLIC LAW 99-499. STANDARD SHOULD BE CONSULTED FOR SPECIFIC REQUIREMENTS.

MANUFACTURER/ SUPPLIERS NAME: **EUTECTIC CORPORATION**
 N94 W14355 Garwin Mace Drive
 Menomonee Falls, WI 53051 USA

TELEPHONE NUMBER:
 1-800-558-8524

PRODUCT NAME: **ABRACOR® Formula 5 HT - Hardener**

PRODUCT CLASSIFICATION: **Wear Resistant Composite**

IMPORTANT: This section covers the materials from which these products are manufactured. The fumes and gases produced during normal use of these products are covered in Section V. The term "Hazardous" in "Hazardous Ingredients" should not only be interpreted as a term required and defined in OSHA Hazard Communication Standard (29 CFR Part 1910.1200), but also as defined by other regulatory agencies. The chemicals or compounds subject to reporting under Title III, in Section 313, of the Superfund Amendments and Reauthorization Act (SARA) are marked by the symbol #.

1. Ingredients:

Ingredient	% W/W	OSHA PEL	ACGIH TLV	CAS #
DIETHLENETRIAMINE	10-15%	N/E	N/E	111-40-0
ALPHATIC AMINE	0-10%	N/E	N/E	MIXTURE 111-40-0 80-05-7
AROMATIC AMINE	10-20%	N/E	N/E	MIXTURE 68479-98-1 1761-71-3
TRIS 2,4,6 DIMETHYLAMINEMETHYL PHENOL	0-10%	N/E	N/E	90-72-2
INORGANIC FILLERS	70-80%	N/E	N/E	N/A

Exposure limits are subject to change. Contact ACGIH, OSHA, NIOSH, and IARC for current values.

2. Physical Data:

Boiling Point: Not Applicable
 Vap. Press: Not Applicable
 Vap. Density: Not Applicable
 Sol. In Water: Slight
 Sp. Gravity: 2.15
 Color: Black
 Appearance: Gritty paste
 Odor: Ammonia
 Physical State: Not Applicable

3. Fire and Explosion Hazard Data:

Flash Point: 480° F (closed cup)
 Flammable Limits
 LFL: Not Applicable
 UFL: Not Applicable
 Extinguishing Media: Water fog, CO2, dry chemical

Fire Fighting Equipment: Water or foam may cause frothing which can be violent and life threatening if sprayed directly into burning liquid. Use self contained breathing apparatus with full face piece.

These products as shipped are non-hazardous, nonflammable, non-explosive, and non-reactive. Rating under National Fire Protection 704: Health, 1: Flammability, 0: Reactivity, 0.

4. Reactivity Data:

Stability: Stable
Condition to Avoid: Extreme Heat
Materials to avoid: Strong oxidizing agents, epoxy resin will cause polymerization.
Hazardous Products: May form toxic materials, carbon dioxide and carbon monoxide, various hydrocarbons, etc.

5. Environmental and Disposal Information:

Action to take for spills/leaks: Scrape or wipe up with suitable material for disposal. Flush contaminated area with water.
Disposal Method: Deposit in landfill in accordance with all local, state and Federal regulations or incinerate in accordance with local pollution regulations.

6. Health Hazard Data:

Eye: May cause eye irritation
Skin Contact: May cause reddening, irritation, dermatitis after prolonged or repeated exposure.
Ingestion: No specific information available - may contain slightly toxic material seek medical attention.
Chronic Effects: Contains polyethylene polyamines which are reported to cause liver and kidney damage on repeated over exposure. Not classified as to carcinogenicity. Both positive and negative Ames test results reported similar material.

PRIMARY ROUTES OF ENTRY are the respiratory system, eyes, and/or skin.

PREEXISTING respiratory or allergic conditions may be aggravated in some individuals.

7. First Aid:

Eye: Flush eyes with water for 15 minutes-contact physician.
Skin Contact: Remove contaminated clothing. Wash with soap and water.
Ingestion: Seek medical attention if large amounts are swallowed.
Inhalation: Remove to fresh air. Provide oxygen if necessary.

8. Handling Precautions:

Exposure Guidelines: None established.
Ventilation: General mechanical ventilation. Exhaust required for application in confined areas.
Respiratory Protection: NIOSH respirator. Organic vapor.
Protective Equipment: Coveralls or work clothes covering skin, rubber gloves.

9. Comments:

The information in this MSDS was obtained from sources we believe are reliable. However, this information is provided without any representation or warranty, expressed or implied, regarding accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we do not assume responsibility and expressly disclaim liability of loss, damage, or expense arising from it or in any way connected with the handling, storage, use, or disposal of the product.

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PRODUCT NAME: ABRACOR® Formula 5 HT - Resin

PRODUCT CLASSIFICATION: Wear Resistant Composite

IMPORTANT: This section covers the materials from which these products are manufactured. The fumes and gases produced during normal use of these products are covered in Section V. The term "Hazardous" in "Hazardous Ingredients" should not only be interpreted as a term required and defined in OSHA Hazard Communication Standard (29 CFR Part 1910.1200), but also as defined by other regulatory agencies. The chemicals or compounds subject to reporting under Title III, in Section 313, of the Superfund Amendments and Reauthorization Act (SARA) are marked by the symbol #.

1. Ingredients:

Ingredient	% W/W	OSHA PEL	ACGIH TLV	CAS #
BISPHENOL A-EPICHLOROHYDRIN RESIN	10-20%	N/E	N/E	25068-38-6
POLYMER OF EPICHLOROHYDRIN PHENOL – FORMALDEHYDE NOVOLAC	0-10%	N/E	N/E	28064-14-4
INORGANIC FILLERS	70-80%	N/E	N/E	N/A

Exposure limits are subject to change. Contact ACGIH, OSHA, NIOSH, and IARC for current values.

2. Physical Data:

Boiling Point:	Not Applicable
Vap. Press:	Not Applicable
Vap. Density:	Not Applicable
Sol. In Water:	Slight
Sp. Gravity:	2.32
Color:	Gray
Appearance:	Thick gritty paste
Odor:	Sweet
Physical State:	Not Applicable

3. Fire and Explosion Hazard Data:

Flash Point:	480° F (closed cup)
Flammable Limits	
LFL:	Not Applicable
UFL:	Not Applicable
Extinguishing Media:	Water fog, CO2, dry chemical
Fire Fighting Equipment:	Water or foam may cause frothing which can be violent and life threatening if sprayed directly into burning liquid. Use self contained breathing apparatus with full face piece.

These products as shipped are non-hazardous, nonflammable, non-explosive, and non-reactive. Rating under National Fire Protection 704: Health, 1; Flammability, 0; Reactivity, 0.

4. Reactivity Data:

Stability:	Stable
Condition to Avoid:	Extreme Heat
Materials to avoid:	Strong oxidizing agents, epoxy resin will cause polymerization.
Hazardous Products:	May form toxic materials, carbon dioxide and carbon Monoxide, various hydrocarbons, etc.

5. Environmental and Disposal Information:

Action to take for spills/leaks:	Scrape or wipe up with suitable material for disposal. Flush contaminated area with water.
Disposal Method:	Deposit in landfill in accordance with all local, state and Federal regulations or incinerate in accordance with local Pollution regulations.

6. Health Hazard Data:

Eye:	May cause eye irritation
Skin Contact:	May cause reddening, irritation, dermatitis after prolonged or repeated Exposure.
Ingestion:	Single dose toxicity is considered extremely low.
Inhalation:	No adverse effects anticipated
Chronic Effects:	Repeated exposures are not anticipated to cause any significant adverse effects.

PRIMARY ROUTES OF ENTRY are the respiratory system, eyes, and/or skin.

PREEXISTING respiratory or allergic conditions may be aggravated in some individuals.

7. First Aid:

Eye:	Flush eyes with water for 15 minutes-contact physician.
Skin Contact:	Remove contaminated clothing. Wash with soap and water.
Ingestion:	Seek medical attention if large amounts are swallowed.
Inhalation:	Remove to fresh air. Provide oxygen if necessary.

8. Handling Precautions:

Exposure Guidelines:	None established.
Ventilation:	General mechanical ventilation. Exhaust required for application in confined areas.
Respiratory Protection:	Not ordinarily required.
Protective Equipment:	Coveralls or work clothes covering skin, rubber gloves.

9. Comments:

The information in this MSDS was obtained from sources we believe are reliable. However, this information is provided without any representation or warranty, expressed or implied, regarding accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we do not assume responsibility and expressly disclaim liability of loss, damage, or expense arising from it or in any way connected with the handling, storage, use, or disposal of the product.