

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[®] Brush-On - Hardener (Curing Agent) -

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. Hazardous Ingredients:

Ingredient	%W/W	OSHA PEL	ACGIH TLV	CAS #
Aliphatic Amines	40-60	N/E	N/E	26950-63-0 112-24-3
Cycloaliphatic Amine	40-60	N/E	N/E	100-51-6
Hydrocarbon Resin	0-10	N/E	N/E	25155-81-1 108-88-3

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

2. Physical Data:

Boiling Point:	N/A	Color:	Amber
Vapor Pressure:	N/A	Appearance:	Liquid
Vapor Density:	N/A	Odor:	Ammonia
Solubility in Water:	Slight	Physical State:	Not Applicable
Specific Gravity:	0.96		

3. Fire and Explosion Hazard Data:

Flash Point:	480°F (Closed cup)
Flammable Limits-	
LFL:	N/A
UFL:	N/A
Extinguishing Media:	Water fog, CO ₂ , dry chemical, foam
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, mineral acids, organic acids, sodium or calcium hypochlorites, and peroxides.
Hazardous Products:	When product burns, may form toxic materials, carbon dioxide and carbon monoxide, ammonia, nitrogen oxides various hydrocarbons, etc.

5. Environmental and Disposal Information:

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:	Corrosive to eyes, may cause severe damage. Vapors may irritate eyes.
Skin Contact:	Corrosive to the skin. May cause sensitization. May be toxic if absorbed through skin.
Ingestion:	Product is corrosive to mouth, throat, and stomach. Moderately toxic if swallowed.
Inhalation:	Vapors can irritate respiratory system.
Chronic Effects:	Repeated exposures are not anticipated to cause significant adverse effects. Some medical conditions may be aggravated by exposure (Asthma, Bronchitis, Emphysema, Eye disease, liver disorders, and allergies).

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 and contact physician.
Skin Contact:	Remove contaminated clothing. Wash with soap and water.
Ingestion:	Seek medical attention.
Inhalation:	Remove to fresh air. Provide oxygen if necessary. Contact physician if adverse effects occur.

8. Handling Precautions:

Exposure Guidelines:	None established.
Eye Protection:	Chemical Goggles or Face Shield
Ventilation:	General mechanical ventilation. Exhaust required for application in confined areas.
Respiratory Protection:	Not ordinarily required unless grinding or machining of product is necessary.
Protective Equipment:	Coveralls or work clothes covering skin, rubber gloves.

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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**MANUFACTURER/
SUPPLIERS NAME:**

EUTECTIC CORPORATION
N94 W14355 Garwin Mace Drive
Menomonee Falls, WI 53051 USA

TELEPHONE NUMBER:
1-800-558-8524

PRODUCT NAME:

ABRACOR[®] Brush-On - Resin (Epoxy 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. Hazardous Ingredients:

Ingredient	%W/W	OSHA PEL	ACGIH TLV	CAS #
Bisphenol A	20-30	N/E	N/E	25068-38-6
Bisphenol F - Epichlorohydrin	10-20	N/E	N/E	28064-14-4
Silicon Carbide	50-70	N/E	N/E	409-21-2
Inorganic Fillers	0-10	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:	N/A	Color:	Blue
Vapor Pressure:	N/A	Appearance:	Smooth Paste
Vapor Density:	N/A	Odor:	Sweet
Solubility in Water:	Slight	Physical State:	Not Applicable
Specific Gravity:	1.78		

3. Fire and Explosion Hazard Data:

Flash Point:	480° F (Closed cup)
Flammable Limits-	
LFL:	N/A
UFL:	N/A
Extinguishing Media:	Water fog, CO ₂ , dry chemical, foam
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, acids, bases, and amines.
Hazardous Products:	When product burns, may form toxic materials, carbon dioxide and carbon monoxide, various hydrocarbons, etc.

5. Environmental and Disposal Information:

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 sensitization, reddening, irritation, and dermatitis after prolonged or repeated exposure.
Ingestion:	Single dose toxicity is considered extremely low.
Inhalation:	No adverse affects anticipated. Irritation may be caused if product is above room temperature.
Chronic Effects:	Repeated exposures are not anticipated to cause 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 and 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. Contact physician if adverse effects occur.

8. Handling Precautions:

Exposure Guidelines:	None established.
Ventilation:	General mechanical ventilation. Exhaust required for application in confined areas.
Respiratory Protection:	Not ordinarily required, unless grinding or machining of product is necessary.
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.