

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.

SECTION I (IDENTIFICATION)

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

TELEPHONE NUMBER:
1-800-558-8524

PRODUCT NAME: **ABRACOR® 5 - Hardener (Formula 5)**

PRODUCT CLASSIFICATION: **Epoxy Curing Agent**

SECTION II (HAZARDOUS INGREDIENTS/IDENTITY INFORMATION)

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 #.

INGREDIENTS	CAS NUMBER	EXPOSURE LIMIT (mg/m³)		Weight PERCENT INGREDIENTS
		OSHA PEL	ACGIH-TLV	
Aliphatic Amine	26950-63-0 (> 75 %) & 112-24-3 (< 25 %)	n.a.	n.a.	20 - 30
Inorganic Fillers	Mixture	n.a.	n.a.	70 - 80

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

SECTION III (PHYSICAL DATA)

Form: Thick, gritty paste Odor: Ammonia Color: Black Specific Gravity: 2.10 Solubility in water: Slight

SECTION IV (FIRE AND EXPLOSION HAZARD DATA)

Flash Point: > 347 °F **Extinguishing media:** Water fog, CO₂, dry chemical or 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 and full bunker gear with butyl rubber boots, gloves and suit.

Rating under National Fire Protection 704: Health, 2; Flammability, 0; Reactivity, 0.

SECTION V (REACTIVITY DATA)

STABILITY: Stable **CONDITIONS TO AVOID:** Extreme heat

INCOMPATIBILITY (conditions to avoid): Strong oxidizing agents, mineral acids, mineral bases, organic acids, organic bases, aliphatic amines, sodium or calcium hypochlorites, and peroxides.

HAZARDOUS PRODUCTS: When product burns, it may form toxic materials, carbon monoxide and carbon dioxide, ammonia, nitrogen oxides, various hydrocarbons, etc.

SECTION VI (HEALTH HAZARD DATA)**Effects of Exposure:**

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

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

SHORT TERM (ACUTE) OVEREXPOSURE:

INGESTION: Product is corrosive to mouth, throat and stomach. Moderately toxic if swallowed.

INHALATION: Vapors can be corrosive to the respiratory system.

SKIN CONTACT: Corrosive to skin. May cause sensitization. May be toxic if absorbed through skin.

EYE CONTACT: Corrosive to eyes, may cause severe damage. Vapors may irritate eyes.

LONG TERM (CHRONIC) OVEREXPOSURE :

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). Contains materials that may be carcinogenic.

Emergency & First Aid Procedures:

Call for medical aid. Employ first aid techniques recommended by The American Red Cross.

SWALLOWING: Call a physician. Advise of Section II ingredients.

SKIN: Wash thoroughly with water to remove all residue. If a rash develops, call a physician.

INHALATION: Remove to fresh air. Provide oxygen if necessary. See a physician if persistent feeling of discomfort is experienced.

EYES: Flush with water for at least 15 minutes to remove all residue. Get medical attention immediately.

SECTION VII (PRECAUTION FOR SAFE HANDLING AND USE/APPLICABLE CONTROL MEASURES)

Read and understand the manufacturer's instructions and precautionary label on this product.

Exposure Guidelines: None established.

Personal Protection: Wear protective gloves and eye protection when using this product and proper clothing to cover skin.

Respiratory Protection: Not ordinarily required unless grinding, machine or burning of products is necessary. Required if working with product at elevated temperature.

Ventilation: Use general mechanical ventilation. Exhaust required for application in confined areas.

Spills / Leaks: Scrape or wipe up with suitable material for disposal. Flush contaminated area with water.

Waste: Dispose of waste residues in landfill and in accordance with EPA or local regulations.

Storage: Store in dry conditions, ambient temperatures. Keep in closed container.

Transportation: Not subject to classification.

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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SECTION I (IDENTIFICATION)

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

TELEPHONE NUMBER:
1-800-558-8524

PRODUCT NAME: **ABRACOR® 5 - Resin (Formula 5)**

PRODUCT CLASSIFICATION: **Epoxy Resin**

SECTION II (HAZARDOUS INGREDIENTS/IDENTITY INFORMATION)

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 #.

INGREDIENTS	CAS NUMBER	EXPOSURE LIMIT (mg/m³)		Weight PERCENT INGREDIENTS
		OSHA PEL	ACGIH-TLV	
Bisphenol A / Epichlorohydrin	25068-38-6	n.a.	n.a.	10 - 20
Bisphenol F	28064-14-4	n.a.	n.a.	0 - 10
Hydrocarbon Resin	n.a.	n.a.	n.a.	0 - 10
Aluminum Oxide	1344-28-1	5	10	70 - 80

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

SECTION III (PHYSICAL DATA)

Form: Thick, gritty paste Odor: Sweet Color: White Solubility in water: Insoluble

SECTION IV (FIRE AND EXPLOSION HAZARD DATA)

Flash Point: > 200 °F **Extinguishing media:** Water spray, CO₂, dry chemical or 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 and full bunker gear with butyl rubber boots, gloves and suit.

Rating under National Fire Protection 704: Health, 2; Flammability, 0; Reactivity, 0.

SECTION V (REACTIVITY DATA)

STABILITY: Stable **CONDITIONS TO AVOID:** Extreme heat
INCOMPATIBILITY (conditions to avoid): Strong oxidizing agents, acids, bases, and amines.
HAZARDOUS PRODUCTS: When product burns, it may form toxic materials, carbon monoxide and carbon dioxide, aldehydes, various hydrocarbons, etc.

SECTION VI (HEALTH HAZARD DATA)**Effects of Exposure:**

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

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

SHORT TERM (ACUTE) OVEREXPOSURE:

INGESTION: May be slightly toxic.

INHALATION: No adverse affects anticipated. Irritation may be caused if product is above room temperature.

SKIN CONTACT: May cause sensitization, reddening, irritation, dermatitis, after prolonged or repeated exposure.

EYE CONTACT: May cause eye irritation.

LONG TERM (CHRONIC) OVEREXPOSURE: Some medical conditions may be aggravated by exposure.

Emergency & First Aid Procedures:

Call for medical aid. Employ first aid techniques recommended by The American Red Cross.

SWALLOWING: Call a physician. Advise of Section II ingredients.

SKIN: Wash thoroughly with water to remove all residue. If a rash develops, call a physician.

INHALATION: Remove to fresh air. Provide oxygen if necessary. See a physician if persistent feeling of discomfort is experienced.

EYES: Flush with water for at least 15 minutes to remove all residue. Get medical attention immediately.

SECTION VII (PRECAUTION FOR SAFE HANDLING AND USE/APPLICABLE CONTROL MEASURES)

Read and understand the manufacturer's instructions and precautionary label on this product.

Exposure Guidelines: None established.

Personal Protection: Wear protective gloves and eye protection when using this product and proper clothing to cover skin.

Respiratory Protection: Not ordinarily required unless grinding, machine or burning of products is necessary. Use organic respirator to avoid breathing mists or vapors from product at elevated temperature.

Ventilation: Use general mechanical ventilation. Exhaust required for application in confined areas.

Spills / Leaks: Scrape or wipe up with suitable material for disposal. Flush contaminated area with water.

Waste: Dispose of waste residues in landfill and in accordance with EPA or local regulations.

Storage: Store in dry conditions, ambient temperatures. Keep in closed container.

Transportation: Not subject to classification.

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.