

# Ergon Armor

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MSDS No. NI014

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Material Safety Data Sheet

SC-5600

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## PRODUCT IDENTIFICATION

Trade Name: SC-5600

Chemical Family: Two Component epoxy amine system

Intended Use or Product Type: Epoxy Coating

## COMPOSITION/INFORMATION ON INGREDIENTS

### OSHA Hazardous Ingredients: NA

**Resin:** Novolac Resin: CAS# 28064-14-4, 50-70%  
Exposure Limits: TLV, PEL: none established  
Resorcinol Diglycidyl Ether: CSA# 101-90-6, 10-15%  
Exposure Limits: TLV, PEL: none established

**Hardener:** Tris (dimethylaminomethylphenol): CAS# 90-72-2, 5% or less  
Exposure Limits: TLV, PEL: none established  
Cycloaliphatic Amine: CAS# Trade Secret, 95%  
Exposure Limits: TLV, PEL: none established

## HAZARDS IDENTIFICATION

Emergency Overview: Toxic fumes are released in fire situation. Harmful if swallowed. May cause allergic skin and eye reaction.
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HMIS (Resin): 2 1 0

HMIS (Hardener): 3 1 0

## First Aid Measures

**Ingestion:** Resin - No hazards anticipated from swallowing small amounts incidental to normal handling operations. Single dose oral toxicity is considered to be extremely low. If large amounts are ingested, induce vomiting if conscious.  
Hardener - Call physician immediately. Give generous amounts of water if conscious, but **do not induce vomiting**. If vomiting occurs, give fluids again.

**Skin:** Resin - Has caused allergic skin reactions. Repeated exposure may cause skin irritation. A single exposure is not likely to result in the material being absorbed through skin in harmful amounts. For skin contact, wash affected areas thoroughly with large amounts of water and soap.

Hardener - For skin contact, immediately remove contaminated clothing and shoes and wash affected areas thoroughly with large amounts of water and soap.

**Inhalation:** Resin - At temperatures, vapors are minimal due to physical properties. Remove to fresh air if effects occur, consult a physician.

Hardener - If inhaled, remove from area to fresh air. If not breathing, give artificial respirator. Get immediate medical attention.

**Eyes:** Resin - May cause slight eye irritation. Corneal injury is unlikely. Flush eyes with plenty of water, if effects occur.

Hardener - Immediately flush eyes with water for 15 minutes with running water. Call physician.

**Overexposure Effects:**

Overexposure to this material can cause chemical burns to the skin and eyes and inhalation of vapors can cause severe respiratory irritation. Can cause allergic skin and respiratory reactions. Can have effects on the nervous system evidenced by central nervous system depression, tremors, paralysis, diarrhea and vasodilation. May also cause headache, nausea and dizziness.

**Medical Conditions Aggravated by Exposure:** Allergy, eczema or skin conditions.

**Additional Information:** Promptly remove wet contaminated non-impervious clothing, wash before reuse. Destroy contaminated leather and absorbent shoes.

## FIRE FIGHTING MEASURES

<b>Flash Point:</b>	<u>Resin</u> >351°F (171°C)	<u>Hardener</u> >212°F (100°C)
<b>Flash Point Method Used:</b>	Closed cup	
<b>Fire Fighting Extinguishing Media:</b>	Carbon Dioxide, foam, dry chemical	
<b>Fire Fighting Equipment:</b>	Use a self-contained breathing apparatus	
<b>Fire and Explosion Hazards:</b>	Decomposition and combustion products may be toxic.	

**NOTE:** decomposition and combustion products may be toxic

## ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** (Steps to be taken if material is spilled)

Keep unnecessary people away. Isolate hazard area and deny unnecessary entry. Eliminate all sources of ignition in vicinity of spill. For small spills: absorb with materials such as sand, polyethylene fiber, or polypropylene fiber products. Place in properly labeled dry seal able containers. Remove residual using hot soapy water. For large spills: Dike and pump into suitable and properly labeled containers and dispose of in professional manner.

## HANDLING AND STORAGE

**Precautions:** Do not get in eyes, on skin, on clothing. Do not breathe vapor, mist or spray. Use only with adequate ventilation. Individuals should wash thoroughly after handling. For industrial use only.

**Storage Information:** Keep away from heat, sparks and open flame. Ground and bond metal containers for liquid transfer to avoid static spark. Store at temperatures between 2°C and 60°C in tightly closed containers in dry area to prevent moisture and carbon dioxide contamination.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal Protective Equipment:** Wear protective equipment to prevent exposure and personal contact.

**Skin Protection:** Impervious gloves

**Respiratory Protection:** Organic chemical cartridge respirator if needed in non-vented area

**Eye Protection:** Splash-proof chemical goggles

**Engineering Controls:** Good general mechanical ventilation and local exhaust

## PHYSICAL AND CHEMICAL PROPERTIES

	<u>Resin</u>	<u>Hardener</u>
<b>Appearance (Color):</b>	Red	Brown
<b>Odor:</b>	None	slight sweet odor
<b>Physical State:</b>	Liquid	Liquid
<b>Solubility in Water (% by weight):</b>	Negligible	Negligible
<b>Density:</b>	1.49	1.15
<b>PH:</b>	ca 5	ca 10

## STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatibility:** Strong oxidizers, strong acids and bases

**Hazardous Decomposition Products:**  
Resin - Carbon Monoxide, Carbon Dioxide, Phenolics  
Hardener - Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Nitric Acid and Aldehydes.

**Hazardous Polymerization:**  
Resin - will not occur  
Hardener - will not occur

## TOXICOLOGICAL INFORMATION

**Acute Oral Effects (Ingestion):**  
Resin - LD 50 (rabbits): 4000 mg/kg  
Hardener - LD 50 (rabbits): 3000 mg/kg

**Sensitization:** Can cause skin and respiratory sensitization

**Skin Irritation:** Irritant

**Eye Irritation:** Irritant

## ECOLOGICAL INFORMATION

**Additional Information:** Amines, in general, may be toxic to aquatic organisms. Epoxies are only slightly soluble in water.

## DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose in accordance with federal, state and local regulations.

## TRANSPORT INFORMATION

Resin- Not regulated by D.O.T.

Hardener- UN2735, Amines, Liquid, Corrosive, N.O.S. (Cycloaliphatic Amines), 8, III

## REGULATORY INFORMATION

### US Federal Regulations:

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is not considered hazardous.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

EPA SARA Title III: Section 304 - CERCLA: Not listed.

EPA SARA Title III: Section 312 (40CFR370) hazard class: Immediate Health Hazard.

EPA SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Sec. 313 (40 CFR 372).

## OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific features and shall not establish a legally valid contractual relationship.

Contact: Superior Environmental Products 972-490-0566