

Ergon Armor

Ergon Asphalt & Emulsions, Inc.

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MSDS No. NI004

Effective Date: June 18, 2009

Material Safety Data Sheet

R-200

1. PRODUCT IDENTIFICATION

Trade Name: R-200

Chemical Family: Epoxy

Intended Use or Product Type: Epoxy Coating

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA Hazardous Ingredients: NA

Resin:

Epoxy Resin Liquid Polymer: CAS# 25068 – 38 – 6 40 –60%

**OSHA (PEL/STEL) NE
ACGIH (TWA/STEL) NE**

Novolac Resin: CAS# 28064-14-4 10-20%

**OSHA (PEL/STEL) NE
ACGIH (TWA/STEL) NE**

Hardener: Mercaptan Amine Blend: CAS# Mixture – 100 %

**OSHA (PEL/STEL) NE
ACGIH (TWA/STEL) NE**

3. HAZARDS IDENTIFICATION

Emergency Overview: Toxic fumes are released in fire situation. Harmful if swallowed. May cause allergic skin and eye reaction.

4. FIRST AID MEASURES

Ingestion: Resin - If large amounts are ingested, induce vomiting if conscious. Low Toxicity.
Hardener - Call physician immediately. Give generous amounts of water if conscious.
Do not induce vomiting.

Skin: Resin - Promptly wash with mild soap and water.

Inhalation: Hardener - Promptly wash with mild soap and water.
Resin - Remove to fresh air. Give oxygen if breathing is difficult.
Eyes: Hardener - Remove to fresh air. Give oxygen if breathing is difficult.
Resin - Immediately flush eyes with water for 15 minutes. Call physician.
Hardener - Immediately flush eyes with water for 15 minutes. Call physician.

Overexposure Effects: Overexposure to this material can cause severe skin and eye irritation. May also cause headache, nausea, and diarrhea.

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.

5. FIRE FIGHTING MEASURES

Flash Point:	<u>Resin</u> 485°F (252°C)	<u>Hardener</u> >200°F (>93°C)
Flash Point Method Used:	PMCC	
Fire Fighting Extinguishing Media:	Carbon Dioxide, foam, dry chemical	
Fire Fighting Equipment:	Use a self-contained breathing apparatus	
Fire and Explosion Hazards:	<u>Hardener:</u> May generate carbon monoxide gas, nitrogen oxide gas, ammonia gas. Decomposition and combustion products May be toxic. <u>Resin:</u> None	

NOTE: decomposition and combustion products may be toxic

6. ACCIDENTAL RELEASE MEASURES

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

Resin – Soak up in absorbent material and collect in suitable containers. Residual may be removed using steam or hot soapy water. Shovel into closed container for disposal.

Hardener - Absorb into sand or other absorbent material. Shovel into closeable container and dispose of in professional manner.

7. 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 40°C in tightly closed containers in dry area to prevent moisture and carbon dioxide contamination.

8. 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

9. PHYSICAL AND CHEMICAL PROPERTIES

	<u>Resin</u>	<u>Hardener</u>
Color:	Dark Grey	Light Amber
Odor:	Faint epoxy	Slight Sulfur
Physical State:	Paste	Liquid
Solubility in Water (% by weight):	Negligible	Negligible
Boiling Point:	N/A	N/A
Specific Gravity:	1.57	1.07
PH:	ca 5	ca N/A

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, Phenolic Nitrogen Oxides and Compounds

Hazardous Polymerization:

Resin - Will not occur
Hardener - Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral Effects (Ingestion):

Resin - LD₅₀ (rats) > 2000.00 mg/kg. No hazards anticipated from ingestion. Incidental to industrial exposure.
Hardener - N/A

Skin Irritation:

Resin - A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.
Hardener - LD₅₀ (rabbits) > 1000 mg/kg.

Eye Irritation:

Resin - Minor transient irritation.
Hardener - Irritation.

12. DISPOSAL CONSIDERATIONS

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

13. TRANSPORT INFORMATION

DOT: Resin: Not regulated
Hardener: Not regulated

14. 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.

Hazard class:

Hardener: Irritant.

Resin: Irritant.

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

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

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).

15. OTHER INFORMATION

HMIS HEALTH	1
HMIS FLAMMABILITY	1
HMIS REACTIVITY	0
HMIS PERSONAL PROTECTION	B

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.