

SAFETY DATA SHEET
AGARM-590/591
PART B HARDENER

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1. Product and Company Identification

Product Code: AGARM-590/591 HARD
Product Name: AGARM-590/591 PART B
Trade Name: HARDENER ArmorGarage-590/591
Company Name: HARDENER
ArmorGarage LLC
19495 Biscayne Blvd
Aventura FL 33180
Emergencies Involving Spills, Leaks
Emergency Contact: Fires, Exposures, or Accidents
CHEMTREC: (800) 424-9300

Phone Number:
(305) 330-9192

2. Hazards Identification

Skin Corrosion/Irritation, Category 1B
Skin Sensitization, Category 1
Serious Eye Damage/Eye Irritation, Category 1
Germ Cell Mutagenicity – Category 2
Acute Toxicity: Oral, Category 4
Aquatic Toxicity (Acute), Category 1
Aquatic Toxicity (Chronic), Category 1



GHS Signal Word
GHS Hazard Phrases:

Danger

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H361 - Suspected of damaging fertility or the unborn child.

H411 - Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases:

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P281 - Use personal protective equipment as required.

GHS Response Phrases:

P301+330+331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical aid.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+313 - If skin irritation occurs, get medical advice/attention.

P337+313 - If eye irritation persists, get medical advice/attention.

P370+378 - In case of fire, use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

P403+235 - Store in cool/well-ventilated place. Store locked up.

GHS Storage and Disposal Phrases:

Contact a licensed professional waste disposal service to dispose of this material.

Potential Health Effects:

Chronic inhalation may cause effects similar to those of acute inhalation.

Inhalation:

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

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Skin Contact: May be harmful if absorbed through the skin. Causes skin burns.
Eye Contact: Causes eye burns.
Ingestion: May be harmful if swallowed.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
Proprietary 84852-15-3	Epoxy Amine Resin Phenol, 4-nonyl-, branched	65.0 - 75.0 % 20.0 – 30.0%

4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Remove from exposure and move to fresh air immediately. Get medical aid.

In Case of Skin Contact:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If skin irritation occurs, get medical advice/attention.

In Case of Eye Contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

In Case of Ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting. Get medical aid.

Signs and Symptoms of

Exposure:

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea.

Note to Physician:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5. Fire Fighting Measures

Suitable Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Fire Fighting Instructions:

Use water spray to cool unopened containers. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Steps To Be Taken In Case

Material is Released or Spilled:

Personal precautions.

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Environmental precautions. Do not let product enter drains. Soak up with inert absorbent material and dispose of hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Precautions To Be Taken in Handling:

Avoid inhalation of vapor mist. Normal measures for preventive fire protection.

Precautions To Be Taken in Storing:

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA
Proprietary 84852-15-3	Epoxy Amine Resin Phenol, 4-nonyl-, branched	N/A N/A	N/A N/A

Respiratory Equipment (Specify Type):

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

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Eye Protection:	Safety glasses with side shield. For a higher degree of protection, wear chemical splash goggles.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure, such as butyl rubber or nitrile rubber. Wear appropriate protective clothing to prevent skin exposure.
Other Protective Clothing:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use
Engineering Controls (Ventilation, etc.)	adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Physical States:	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
Flash Point:	>260°F		
Boiling Point:	>245°F		
Explosive Limits:	LEL: N/A	UEL: N/A	
Weight Per Gallon:	8.3 +/- .3		
Vapor Pressure (mm Hg):	N/A		
Vapor Density:	N/A		
Evaporation Rate:	N/A		
Percent Volatile:	0		

10. Stability and Reactivity

Stability:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>	No data available.
Conditions to Avoid - Instability:	Excess heat		
Incompatibility – Materials To Avoid:	Strong oxidizing agents, acids.		
Hazardous Decomposition Or Byproducts:	Formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).		
Possibility of Hazardous Reactions:	Will occur <input type="checkbox"/>	Will not occur <input checked="" type="checkbox"/>	
Conditions to Avoid - Hazardous Reactions:	No data available		

11. Toxicological Information

Toxicological Information:	No information found.
Irritation or Corrosion:	Causes severe skin burns and eye damage.
Carcinogenicity/Other Information:	Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. Ecological Information

Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available Toxic to aquatic life with long lasting effects.

13. Disposal Considerations

Waste Disposal Method:	Dispose of as unused product. This material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
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14. Transport Information

**LAND TRANSPORT (US DOT):
DOT Proper Shipping Name:**

Limited Quantity – Used for 1 gallon and quart cans when shipped in the United States of America
UN3066, Paint Related Material, 8, PG III (sizes larger than 1 gallon)



**IMDG Shipping:
Name:**

UN3066, Paint Related Material, 8, PG III
The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg (per container)



**AIR TRANSPORT (ICAO/IATA):
IATA Shipping Name:**

UN3066, Paint Related Material, 8, PG III



15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
Proprietary	Epoxy Amine Resin	No	No	No
84852-15-3	Phenol, 4-nonyl-, branched	No	No	No

All components in this product are listed in the TSCA Inventory List.

V.O.C. (mixed): 0 LBS/GL (0 GMS/L)

16. Other Information

Revision Date: 4/20/2023

Additional Information About this Product:

Hazardous Material Information System III (U.S.A)

Health: 3
Flammability: 1
Reactivity: 0
Personal Protection: *

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by ArmorGarage LLC and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.