

SAFETY DATA SHEET
ArmorUltra Chemical Mastic High Build Epoxy - Part A



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1. Product and Company Information

Product Code: ARMCM-15X-A
Product Name: ArmorUltra Chemical Mastic High Build Epoxy - Part A
Trade Name: ArmorUltra Chemical Mastic High Build Epoxy - Part A
Company Name: Armorpoxy Inc.
1260 North Ave
Plainfield, NJ 07062
Emergencies Involving Spills, Leaks
Fires, Exposures, or Accidents
Emergency Contact: CHEMTREC: (800) 424-9300

Phone Number:
888-755-7361

2. Hazards Identification

Target Organ Systemic Toxicity (repeated exposure), Category 2
Skin Sensitization, Category 1
Serious Eye Damage/Eye Irritation, Category 2A
Flammable Liquids, Category 3
Acute Toxicity: Skin, Category 4
Acute Toxicity: Inhalation, Category 4
Skin Corrosion/Irritation, Category 3
Aquatic Toxicity (Acute), Category 1



GHS Signal Word:
GHS Hazard Phrases:

Danger

H226 - Flammable liquid and vapor.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases:

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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.
P501 - Contact a licensed professional waste disposal service to dispose of this material.

GHS Storage and Disposal Phrases:

Potential Health Effects (Acute and Chronic):

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

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Inhalation of high concentrations may cause

central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Vapors may cause dizziness or suffocation.

Skin Contact: May be harmful if absorbed through the skin. Causes skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. Causes redness and pain.

Eye Contact: Causes severe eye irritation. Causes redness and pain.

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Ingestion: May be harmful if swallowed. May be harmful if inhaled. Causes respiratory tract irritation. May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal.

3. Composition/Information on Ingredients

<u>CAS #</u>	<u>Hazardous Components (Chemical Name)</u>	<u>Concentration</u>
14808-60-7	Silicon Dioxide	40.0 - 50.0%
25068-38-6	Epoxy Resin	20.0 - 30.0%
1330-20-7	Xylene (mixed isomers)	10.0 - 20.0%
13463-67-7	Titanium Dioxide	5.0 - 15.0%
84852-15-3	Phenol, 4-nonyl-, branched	1.0 - 5.0%
100-41-4	Ethylbenzene	0.1 - 3.0%
108-65-6	Propylene glycol methyl ether acetate	1.0 - 2.0%

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:

Central nervous system depression. Dermatitis. Abdominal pain, Nausea. Vomiting, Anorexia. Shortness of breath.

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

Treat symptomatically and supportively.

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 away 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. Specific Hazard(s): Flammable Liquid. Emits

toxic

fumes under fire conditions. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

Flammable Properties and Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions. Forms explosive mixtures in air.

6. Accidental Release Measures

Stability: Unstable [] Stable [X]
Conditions to Avoid-Instability: Heat, flames and sparks. Ignition sources.
Incompatibility – Materials To Avoid: Strong oxidizing agents, acids
Hazardous Decomposition Or Byproducts: Nature of decomposition products unknown.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid – Hazardous Reactions: No data available

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11. Toxicological Information

Toxicological Information: Germ cell mutagenicity. Reproductive toxicity - no data available. Aspiration hazard. Inhalation: May cause damage to organs through prolonged or repeated exposure. Epidemiology: Teratogenicity: No information available.
Carcinogenicity/Other Information: These products contain more than 0.1% crystalline silica (CAS #14808-60-7) which has been classified by IARC a Class 1 carcinogen. Normal application procedures pose no hazard since the silica is set and encapsulated, but grinding or sanding dried films may yield respirable silica dusts. Control exposures to less than 0.1 mg per cubic meter of air using approved dust filter respirators. Skin contact: Prolonged or repeated contact with product may cause slight skin irritation. Impervious gloves should be worn if prolonged skin contact is likely.

ACGIH Carcinogens

Quartz (CAS 14808-60-7) A2 Suspected human carcinogen


IARC Monographs, Overall Evaluation of Carcinogenicity

Quartz (CAS 14808-60-7) 1 Carcinogenic to humans

US NTP Report on Carcinogens: Known Carcinogen

Quartz (CAS 14808-60-7) Known to be human carcinogen

OSHA PEL: Exposure to airborne crystalline silica shall not exceed an 8 hour time weighted average limit as stated in 29CFR 1910.1000, Table-Z-1-A Air contaminants, specifically: Silica, Crystalline Quartz (Respirable) 0.1 MG/M3. ACGIH TLV-TWA: 01 MG/M3. NIOSH Maximum permissible conc. 0.05 MG/M3, 10 hour workday, 40 hour week.

 This product contains the following substances known to the State of California to cause cancer, birth defects, or other reproductive hazards: Benzene, Toluene, Crystalline Silica.

12. Ecological Information

General Ecological Information: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available

13. Disposal Considerations

Waste Disposal Method: Dispose of as unused product. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. Transport Information

LAND TRANSPORT (US DOT): Limited Quantity – Used for 1 gallon containers when shipped in the United States of America.
DOT Proper Shipping Name: UN1263, Paint Related Material, 3, PG III – 5 Gallon pails



**Marine Transport
IMDG Shipping:**

UN1263, Paint Related Material, 3, 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:**

UN1263, Paint Related Material, 3, PG III



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15. Regulatory Information

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

All	CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
	14808-60-7	Silicon Dioxide	No	No	No
	25068-38-6	Epoxy Resin	No	No	No
	1330-20-7	Xylene (mixed isomers)	No	Yes 100 LB	Yes
	13463-67-7	Titanium dioxide	No	No	No
	84852-15-3	Phenol, 4-nonyl-, branched	No	No	No
	100-41-4	Ethylbenzene	No	Yes 1000 LB	Yes
	108-65-6	Propylene glycol methyl ether acetate	No	No	No

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

V.O.C. (WHITE) 1.34 LBS/GAL. (161 GMS/L)

16. Other Information

Revision Date: 2/23/2023

Additional Information About This Product:

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

Health: 2*
Flammability: 3
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 Armorpoxy Inc. 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.

SAFETY DATA SHEET
ArmorUltra Chemical Mastic High Build Epoxy - Part B



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1. Product and Company Identification

Product Code: ARMCM-15X-B
Product Name: ArmorUltra Chemical Mastic High Build Epoxy - Part B
Trade Name: ArmorUltra Chemical Mastic High Build Epoxy - Part B
Company Name: Armorpoxy Inc.
1260 North Ave
Plainfield, NJ 07062
Emergencies Involving Spills, Leaks
Fires, Exposures, or Accidents
CHEMTREC: (800) 424-9300

Emergency Contact:

Phone Number:
888-755-7361

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.
P501 – Contact a licensed professional waste disposal service to dispose of this material.

GHS Storage and

Disposal Phrases: P403+235 – Store in a cool/well-ventilated place. Store locked up.

Potential Health Effects (Acute and Chronic): 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.

Skin Contact: May be harmful if absorbed through the skin. Causes skin burns.

Eye Contact: Causes eye burns.

Ingestion: May be harmful if swallowed.

ArmorUltra Chemical Mastic High Build Epoxy - Part B/PAGE 2

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
Proprietary 84852-15-3	Epoxy Amine Resin	55.0 - 60.0 %
	Phenol, 4-nonyl-branched	40.0 - 45.0 %

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.

Note to Physician: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Treat symptomatically and supportively.

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. Specific Hazard(s): Flammable Liquid. Emits toxic fumes under fire conditions. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. This liquid floats on water and may travel to a source of ignition and spread fire. May accumulate static electricity.

Flammable Properties and Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions. Forms explosive mixtures in air. Wear self-contained breathing apparatus for firefighting, if necessary.

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 as 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: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls/Personal Protection

CAS #

84852-15-3

Proprietary

Partial Chemical Name

Phenol, 4-nonyl-, branched

Epoxy Amine Resin

OSHA TWA

N/E

N/E

ACGIH TWA

N/E

N/E

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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..
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: Engineering Controls (Ventilation, etc.)	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use 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:	>250°F		
Boiling Point:	N/A		
Explosive Limits:	LEL: N/A	UEL: N/A	
Weight Per Gallon:	7.90 +/- .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:	No data available		
Incompatibility – Materials To Avoid:	Strong oxidizing agents, acids.		
Hazardous Decomposition Or Byproducts:	Nature of decomposition products unknown.		
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: 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

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

ArmorUltra Chemical Mastic High Build Epoxy - Part B/PAGE 4

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.

14. Transport Information

LAND TRANSPORT (US DOT):
DOT Proper Shipping Name: Limited Quantity – Used for 1 gallon containers 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): 1.34 LBS/GL (161 GMS/L) White

16. Other Information

Revision Date: 2/23/2023

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.

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