

**SAFETY DATA SHEET**  
**ArmorUltra High Build 591 Wet Epoxy Part A**



Page 1 – 2/23/2023

**1. Product and Company Identification**

**Product Code:** ARM591X-A  
**Product Name:** ArmorUltra High Build 591 Wet Epoxy Part A  
**Trade Name:** ArmorUltra High Build 591 Wet 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**

**Skin Corrosion/Irritation, Category 2**  
**Skin Sensitization, Category 1**  
**Serious Eye Damage/Eye Irritation, Category 2A**  
**Aquatic Toxicity (Chronic), Category 2**  
**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Inhalation, Category 4**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** H302 – Harmful if swallowed.  
H315 - Causes skin irritation.  
H317 – May cause an allergic skin reaction.  
H319 – Causes serious eye irritation.  
H332 – Harmful if inhaled.  
H411 – Toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases:** P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P270 – Do not eat, drink or smoke when using this product.  
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:** Chronic inhalation may cause effects similar to those of acute inhalation.

**Potential Health Effects:**

**Inhalation:** May be harmful if inhaled.  
**Skin Contact:** Causes skin irritations. Prolonged and/or repeated contact may cause irritation and/or dermatitis. Causes redness and pain.  
**Eye Contact:** Causes serious eye irritation. Causes redness and pain.  
**Ingestion:** May be harmful if swallowed. May be harmful if inhaled.

## ArmorUltra High Build 591 Wet Epoxy Part A/PAGE 2

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
14808-60-7	Silicon dioxide	45.0 - 55.0 %
Proprietary	Epoxy resin	25.0 - 35.0 %
13463-67-7	Titanium dioxide	1.0 - 10.0%
100-51-6	Benzyl alcohol	1.0 - 10.0%

### 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 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. Spills/Leaks: Control runoff and isolate discharged material for proper disposal. Use water spray to cool and disperse vapors and protect personnel.

### 7. Handling and Storage

#### Precautions To Be Taken in Handling:

Avoid contact with skin and eyes. 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
14808-60-7	Silicon dioxide	PEL: 8825 ppm/(%SiO <sub>2</sub> +5)	TLV: 0.05 mg/m <sup>3</sup> (R)

Proprietary  
13463-67-7  
100-51-6

Epoxy resin  
Titanium dioxide  
Benzyl Alcohol

N/E  
PEL: 15 (dust) mg/m<sup>3</sup>  
N/E

N/E  
TLV: 10 mg/m<sup>3</sup> (E)  
N/E

**Respiratory Equipment  
(Specify Type):**

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.

**ArmorUltra High Build 591 Wet Epoxy Part A/PAGE 3**

**Eye Protection:  
Protective Gloves:**

Safety glasses with side shield. For a higher degree of protection, wear chemical splash goggles. 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.)  
Work/Hygienic/Maintenance  
Practices:**

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. 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:**  Gas  Liquid  Solid  
**Flash Point:** >250°F  
**Boiling Point:** >300°F  
**Explosive Limits:** LEL: N/A  
**Weight Per Gallon:** 15.10 +/- .5  
**Vapor Pressure (mm Hg):** N/A  
**Vapor Density:** Heavier than Air  
**Evaporation Rate:** Slower than Ether  
**Percent Volatile:** 0 (Vol)

**10. Stability and Reactivity**

**Stability:** Unstable  Stable   
**Conditions to Avoid -  
Instability:** Excessive heat  
**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   
**Conditions to Avoid -** No data available

**11. Toxicological Information**

**Toxicological Information:**

Epidemiology: No information found.  
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

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: Crystalline Silica.

## ArmorUltra High Build 591 Wet Epoxy Part A/PAGE 4

### 12. Ecological Information

**General Ecological Information:**  
**Bioaccumulative Potential:**  
**Mobility in Soil:**

Toxic to aquatic life with long lasting effects.  
 No data available.  
 No data available.

### 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

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

Limited Quantity – Used for 1 gallon containers when shipped in the United States of America.  
 5 gal. pails – UN3082, PG III, Class 9 Environmentally hazardous substance, liquid, n.o.s.



**Marine Transport**  
**IMDG Shipping:**

UN 3082, PG III, Class 9 Environmentally hazardous substance, liquid, n.o.s.



**AIR TRANSPORT (ICAO/IATA)**  
**ICAO/IATA SHIPPING NAME:**

UN 3082, PG III, Class 9 Environmentally hazardous substance, liquid, n.o.s.



### 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)
14808-60-7	Silicon dioxide	No	No	No
Proprietary	Epoxy resin	No	No	No
13463-67-7	Titanium dioxide	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)

## ArmorUltra High Build 591 Wet Epoxy Part A/PAGE 5

### 16. Other Information

Revision Date: 2/23/2023

**Additional Information About This Product:**

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

Health: 2

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 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 High Build 590/591 Wet Epoxy Part B**



Page 1 – 2/23/2023

**1. Product and Company Identification**

**Product Code:** ARM590X-B  
**Product Name:** ArmorUltra High Build 590/591 Wet Epoxy Part B  
**Trade Name:** ArmorUltra High Build 590/591 Wet Epoxy Part B  
**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**

**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:** **Danger**

**GHS Hazard Phrases:** 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.  
**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 High Build 590/591 Wet Epoxy Part B/PAGE 2

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
Proprietary 84852-15-3	Epoxy Amine Resin	65.0 - 75.0 %
	Phenol, 4-nonyl-, branched	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 skin:** Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

**Exposure:** 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	Epoxy Amine Resin	N/A	N/A



84852-15-3

Phenol, 4-nonyl-, branched

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.

**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.

**ArmorUltra High Build 590/591 Wet Epoxy Part B/PAGE 3****Other Protective Clothing:**

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.

**Engineering Controls  
(Ventilation, etc.)****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**

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

**10. Stability and Reactivity**

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

**11. Toxicological Information**

<b>Toxicological Information:</b>	No information found.
<b>Irritation or Corrosion:</b>	Causes severe skin burns and eye damage.
<b>Carcinogenicity/Other Information:</b>	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.

**ArmorUltra High Build 590/591 Wet Epoxy Part B/PAGE 4**

**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: 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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