

SAFETY DATA SHEET



SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name: Ceramic Repair Putty Base

Product Classification: Paint/Coating

Manufactured By: Advanved FRP Systems Inc.
55 Timberlane
Plymouth, MA 02360
(508) 927-6915

In case of emergency contact: Chem-Tel 800-255-3924

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SECTION 2. IDENTIFICATION OF HAZARDS

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Acute Toxicity, Oral (Category 4), H302
Acute Toxicity, Dermal (Category 4), H312
Skin Irritant (category 2), H315
Skin Sensitizer (Category 1), H317
Eye Irritant (Category 2A), H319
Chronic Aquatic Toxicity (Category 3), H412

GHS Label Elements, Including precautionary statements

Pictogram



Signal Word: WARNING

Hazard determining component(s):

Bisphenol A epoxy resin
Butanedioldiglycidyl ether

Hazard Statements

H302+H312	Harmful if swallowed or in contact with skin
H315	Causes skin irritation
H317	May cause allergic skin reaction
H319	Causes serious eye irritation
H 412	Harmful to aquatic life with long lasting effects

Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after using this product.
P270	Do not eat, drink, or smoke when using this product

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P271	Use only outdoors or in well ventilated areas
P272	Contaminated work clothes should not be allowed out of the workplace
P273	Avoid release into the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if feeling unwell.
P303+P361+P353	IF ON SKIN: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing.
P333+P313	If skin irritation or rash occurs, Get medical advice/attention.
P362	Take off contaminated clothes and wash before reuse.
P370+P378	In case of fire use dry sand, dry chemicals or alcohol resistant foam for extinguishing.
P501	Dispose of contents/containers in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Classification	Concentration
Bisphenol A Epoxy Resin	25068-38-6	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; H315, H317, H319	20 - 35%
Butanediol diglycidyl ether	2425-79-8	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A Skin Sens. 1; Aquatic Acute 3; Aquatic Chronic 3; H302, H312, H315, H317 H319, H412	5 - 15%
Aluminum Oxide, surface modified	1344-28-1	None	40 – 65%
CI Pigment Black 11	1317-61-9	None	0 – 5%
Hydrophobic Fumed Silica	67762-90-7	None	2 – 10%
Silicon Carbon, surface modified	409-21-2	None	2 – 10%

SECTION 4. FIRST AID MEASURES

Inhalation:	Remove person to fresh air. If signs or symptoms continue seek medical attention.
Skin Contact:	Wash off with soap and water. If the chemical has penetrated clothing, remove clothing and wash with soap and water.
Eye Contact:	Immediately wash the eyes with plenty of water. If irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting. Consult a physician if necessary.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media:	Use dry chemicals, CO ₂ , water spray or foam. Move containers from fire area if you can without risk. Runoff from fire control may cause pollution. Dike water for later disposal.
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Special Hazards: Material may burn but does not ignite readily. Fire may produce irritating, corrosive, and/or toxic gases.

Additional Measures: Cool closed containers by spraying with water. Do not allow water runoff to enter drains or waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES

ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. LARGE SPILLS: Dike far ahead of liquid spill to contain released material and runoff from fire control.

Environmental precautions
Do not allow spills to enter drains or watercourses.

Methods and material for containment and cleaning up
Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

SECTION 7. HANDLING AND STORAGE

Store all materials between 40 – 100 °F. Ensure storage area is well ventilated and free from all sources of ignition. Wash hands thoroughly after use. Immediately clean up any spills and keep containers tightly closed when not in use.

SECTION 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Control Parameters

Component	CAS Number	Value	Control Parameter	Basis
Aluminum oxide, surface treated	1344-28-1	TWA	1.0 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)

Exposure Control

Respiratory: Select equipment to provide protection from the ingredients listed in Section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

Eyes: Avoid contact with eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.

Skin: Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.

Engineering Controls: Depending on the site-specific conditions of use, provide adequate ventilation.

Other Work Practices

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Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of soap and water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

% Volatile Content by Weight:	<0.2%
VOC Content	0 g/L
Initial Boiling Point	>425 °F
Flash Point	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Evaporation Rate	No data available
Specific Gravity	2.31 g/mL
Solubility in water	Negligible
Appearance and Odor	Black Paste, faint epoxy odor
pH	Unknown

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Avoid contact with strong mineral or Lewis acids as rapid polymerization can result. Also avoid strong oxidizing agents.

Chemical stability: This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.

Possibility of hazardous reactions: Avoid incompatible materials listed below.

Incompatible materials: Strong oxidizing agents. Strong mineral or Lewis acids.

Hazardous decomposition products: Heat is generated when the Base and Activator are mixed. Uncontrolled curing of large masses may cause the material to char or catch fire. Material may burn but does not ignite readily. Fire may produce irritating, corrosive and/or toxic gases. Sealed containers may explode when heated.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation (vapor) LD50, mg/L/4h	Inhalation (dust/mist) LD50, mg/L/4h
Bisphenol A Epoxy Resin	>5,000	>6,000	>3,466	No data

SECTION 12. ECOLOGICAL INFORMATION

Toxicity: No additional information is available on this product. See Section 3 for chemical specific breakdown of toxicity.

Aquatic Ecotoxicity

Ingredient	96h LC50 fish, mg/L	48h EC50 crustacea, mg/L	ErC50 algae, mg/L
Bisphenol A Epoxy Resin	1.5 (Rainbow Trout)	3.6 (Daphnia)	No data

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Persistence and degradability: ~13% based on modified Stern Method

Bioaccumulation potential: Not measured

Mobility in Soil: No data available

Results of PBT and vPvB Assessment: This product contains no PBT/vPvB chemicals.

Other Adverse Effects: None known

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment Method: Do not allow spills to enter into drains or waterways. Dispose of in accordance with local, state and federal regulations. Part A and B can be mixed together and allowed to cure to form an inert solid to facilitate easy disposal.

SECTION 14. TRANSPORT INFORMATION

DOT (Domestic Surface Transportation)

DOT Proper Shipping Name: Not Regulated

DOT Hazard Class: Not Regulated

UN/NA Number: Not Regulated

DOT Packaging Group: Not Regulated

CERCLA/DOT RQ: Not Applicable

IMO/IMDG (Ocean Transport)

IMDG Proper Shipping Name: Not Regulated

IMDG Hazard Class: Not Regulated

Sub Class: Not Applicable

IMDG Packaging Group: Not Regulated

System Reference Code: 9

Environmental Hazards

Marine Pollutant (Bisphenol A Epoxy Resin)

SECTION 15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Sec. 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Sec. 313.

SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right to Know Components

	CAS #	Revision Date
None		

Pennsylvania Right to Know Components

	CAS #	Revision Date
None		

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New Jersey Right to Know Components

None

CAS #

Revision Date

California Prop. 65 Components

This product does not contain chemicals known to the State of California to cause cancer, birth defects or any other genetic anomaly.

Canadian Regulations: WHMIS Hazard Class: D2B - Toxic material causing other toxic effects,
All components of this product are on the Canadian Domestic Substances List.

SECTION 16. OTHER INFORMATION

HMIS RATINGS

HEALTH:	2
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	B

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained within this SDS. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customer/users of this product must comply with all applicable health and safety laws, regulations and orders.