

## SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

### 1. PRODUCT IDENTIFICATION

Trade Name(s): XT1 Primer Resin  
Product Description: Moisture Tolerant Epoxy Primer  
Synonyms: N/A  
CAS No: N/A

Supplier:  
EPRO Services, Inc.  
PO Box 347  
Derby, KS 67037  
800-882-1896 (8:00am – 5:00pm CST)

### 2. HAZARD(S) IDENTIFICATION

**Physical hazards:** Not classified.

**Health hazards**

**Skin corrosion/irritation:** Category 2  
**Serious eye damage/eye irritation:** Category 2  
**Sensitization, skin:** Category 1

**Environmental hazards:** Not classified.

**OSHA defined hazards:** Not classified.

**Label elements**



**Signal word:** Warning.

**Hazard statement:** Cause skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

**Precautionary statement**

**Prevention:** Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the Workplace. Wear eye protection/face protection. Wear protective gloves.

**Response:** If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage:** Store away from incompatible materials.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified (HNOC):** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

<u>Chemical Name</u>	<u>CAS No.</u>	<u>%</u>
ALUMINA TRIHYDRATE	21645-51-2	40 - < 50
BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN (REACTION PRODUCT)	25068-38-6	40 - < 50
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	1 - < 3
Other components below reportable levels		10 - < 20

Note: As supplied and during application the alumina trihydrate is bound within the CIM matrix. The alumina trihydrate is not in a respirable form and should not pose a hazard to the user.

\*Designate that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

**Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact:** Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders, seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. If present and easy to do. Continue rinsing. Get medical attention if irritation develop and persists.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

**Indication of immediate medical attention and special treatment needed:** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information:** Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher as this will spread the fire.

**Specific hazards arising from the chemical:** During fire gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Firefighting equipment/instructions:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards:** No unusual fire or explosion hazards noted.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up:** This product is miscible in water. Prevent entry into waterways, sewer, basements, or confined areas. Large spills: Stop the flow of material if this is without risk. Dike the spilled material where possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand, or earth and place into containers. Following product recovery flush area with water. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions:** Avoid discharge into drains, water courses, or onto the ground.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities:** Store in original tightly closed container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### US OSHA Table Z-3 (29 CFR 1910.1000)

<u>Components</u>	<u>Type</u>	<u>Value</u>	<u>Form</u>
Alumina Trihydrate (CAS 21645-51-2)	TWA	5 mg/m <sup>3</sup>	Respirable fraction
		15 mg/m <sup>3</sup>	Total dust
		50 mppcf	Total dust
		15 mppcf	Respirable fraction
Silane, dichlorodimethyl-reaction products with Silica (CAS 68611-44-9)	TWA	0.8 mg/m <sup>3</sup>	
		20 mppcf	

### US ACGIH Threshold Limit Values

<u>Components</u>	<u>Type</u>	<u>Value</u>	<u>Form</u>
Alumina Trihydrate (CAS 21645-51-2)	TWA	1 mg/m <sup>3</sup>	Respirable fraction

**Biological limit values:** No biological exposure limits noted for the ingredients.

**Exposure guidelines:** As supplied and during application the alumina trihydrate is bound within the CIM matrix. The alumina trihydrate is not in a respirable form.

**Appropriate engineering controls:** Not available.

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Face shield is recommended. Wear safety glasses with side shields (or goggles).

**Skin protection – hand:** Wear appropriate chemical resistant gloves.

**Skin protection – other:** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid  
**Odor:** Aromatic Odorless Mild  
**pH:** Not available  
**Initial boiling point & range:** > 392°F (> 200°C)  
**Evaporation rate:** Not available  
**Upper/lower flammability limits:** Not available  
**Vapor pressure:** Not available  
**Relative density:** Not available  
**Partition coefficient (n-octanol/water):** Not available  
**Decomposition temperature:** Not available  
**Explosive properties:** Not explosive  
**Oxidizing properties:** Not oxidizing  
**VOC:** < 36 g/l (when mixed with Hardener)

**Color:** Off-white  
**Odor threshold:** Not available  
**Melting/freezing point:** Not available  
**Flash point:** > 572°F (> 300°C)  
**Flammability (solid, gas):** Not available  
**Upper/lower explosive limits:** Not available  
**Vapor density:** Not available  
**Solubility (water):** Insignificant  
**Auto-ignition temperature:** > 842°F (> 450°C)  
**Viscosity:** 12000 cP  
**Flammability class:** Combustible IIIB estimated  
**Specific gravity:** 1.55

## 10. STABILITY AND REACTIVITY

**Reactivity:** The product is stable and non-reactive under normal condition of use, storage, and transport.  
**Chemical stability:** Material is stable under normal conditions.  
**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.  
**Conditions to avoid:** Contact with incompatible materials.  
**Incompatible materials:** Strong oxidizing agents.  
**Hazardous decomposition products:** No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation:** Prolonged inhalation may be harmful.

**Skin contact:** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical, and toxicological characteristics:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

**Acute toxicity:** May cause an allergic skin reaction.

<u>Components</u>	<u>Species</u>	<u>Test Results</u>
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Alumina trihydrate (CAS 21645-51-2)		
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<u>Acute</u>		
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Oral		
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LD50		
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	Rat	
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		> 5000 mg/kg
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\*Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/eye irritation:** Causes serious eye irritation.

### Respiratory or skin sensitization

**Respiratory sensitization:** Not a respiratory sensitizer.

**Skin sensitization:** May cause an allergic skin reaction.

**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity:** Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052):** Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens:** Not listed.

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity – single exposure:** Not classified.

**Specific target organ toxicity – repeated exposure:** Not classified.

**Aspiration hazard:** Not an aspiration hazard.

**Chronic effects:** Prolonged inhalation may be harmful.

## 12. ECOLOGICAL INFORMATION (non-mandatory)

**Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability:** No data is available on the degradability of this product.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No other adverse environmental effect (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. DISPOSAL CONSIDERATIONS (non-mandatory)

**Disposal instructions:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations:** Dispose in accordance with all applicable regulations.

Hazardous waste code: Waste code should be assigned in discussion between user, producer, and waste disposal company.

**Waste from residues / unused products:** Dispose of in accordance with local regulations. Empty containers or liner may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).

**Contaminated packaging:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty container should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION (non-mandatory)

**DOT:** Not regulated as dangerous goods.

**IATA**

**UN number:** UN3082

**UN proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A-(Epichlorhydrin) Epoxy Resin (Reaction Product))

**Transport hazard classes**

**Class:** 9

**Subsidiary risk:** -

**Packing group:** III

**Environmental hazards:** Yes

**ERG Code:** 9L

**Special precautions for user:** Not available

**Other information**

**Passenger and cargo aircraft:** Allowed with restrictions.

**Cargo aircraft only:** Allowed with restrictions.

**IMDG**

**US number:** UN3082

**UN proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A-(Epichlorhydrin) Epoxy resin (Reaction products)). Marine pollutant.

**Transport hazard classes**

**Class:** 9

**Subsidiary risk:** -

**Packing group:** III

**Environmental hazards**

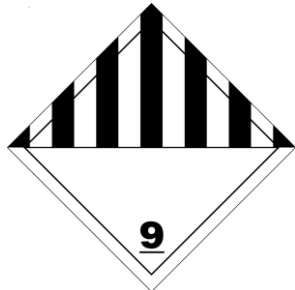
**Marine pollutant:** Yes

**EmS:** F-A, S-F

**Special precautions for user:** Not available.

**Transport in bulk according to Annex II of MARPO 73/78 and the IBC Code:** Not established.

**IATA; IMDG**



**Marine pollutant**



**General Information:** IMDG Regulated Marine Pollutant.

## 15. REGULATORY INFORMATION (non-mandatory)

**US federal regulations:** This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

**CERLA Hazardous Substance List (40 CFR 302.4):** Not listed.

**SARA 304 Emergency release notification:** Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not regulated.

### Superfund Amendment and Reauthorization Act of 1986 (SARA)

**SARA 302 Extremely hazardous substance:** Not listed.

**SARA 311/312 Hazardous chemical:** Yes

Classified hazard categories: Skin corrosion or irritation. Serious eye damage or eye irritation. Respiratory  
Or skin sensitization.

**SARA 313 (TRI reporting):** Not regulated.

### Other federal regulations

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** Not regulated.

**Safe Drinking Water Act (SDWA):** Not regulated.

### US state regulations

**California Proposition 65:** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

This material is not known to contain any chemical currently listed as carcinogens or reproductive toxins.

### International Inventories

Country or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
US & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*"Yes" indicates that all components of this product comply with the inventory requirements by the governing countries. "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country.

## 16. OTHER INFORMATION

This information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designated only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.