



**ANTI-SEIZE TECHNOLOGY**  
A.S.T. Industries, Inc.

# READY - STICK™ EPOXY PUTTY COPPER SAFETY DATA SHEET

## Section 1- Product and Company Identification

**Manufacture/Supplier :** Anti-Seize Technology  
2345 N. 17<sup>th</sup> Ave.  
Franklin Park, IL 60131

**Phone:** 847-455-2300

**Fax:** 847-455-2371

**Web:** antiseize.com

**Emergency Phone, 24 hr:** Infotrac @ 1-800-535-5053 ( US & Canada )  
1-352-323-3500 ( International )

**Web:** infotrac.net

**Product Use:** Epoxy repair stick

**Date:** December 6, 2017

## Section 2-Hazard Identification

### GHS Classification ( Hazcom 2012):

This material is considered hazardous by the OSHA Hazard Communication Standard ( 29 CFR 1910.1200)

### Label Elements:



### Signal word:

Warning !

### Hazard Phrases:

Skin Corrosion / irritation	Category 2
Serious Eye Damage / Eye Irritation	Category 2B
Skin Sensitization	Category 1

### Precautionary Phrases:

#### Prevention:

Wear protective gloves. Wear eye or face protection.  
Avoid breathing dust.  
Wash hands thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.

**Response:**

**If in Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists seek medical attention.

**If on Skin:** Gently Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before re-use. If skin irritation or rash occurs get medical attention.

**Storage:**

When not in use keep container closed.  
Keep away from children.

**Disposal:** Dispose of contents in accordance with local, regional and national regulations.

**Other Hazards:** None known.

<b>Section 3- Composition/ Information on Ingredients</b>
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CHEMICAL	CAS NUMBER	PERCENT
Reaction product: Bisphenol –A- ( epichlorhydrin);epoxy resin	25068-38-6	10-30
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1-5
Crystalline silica non-respirable	14808-60-7	0.1-1

The specific identity and/or exact percentage of composition has been withheld as a trade secret

<b>Section 4 – First Aid Measures</b>
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**Eye:** Flush eyes with water, holding the eyelids apart. Check for and remove contact lenses. Continue rinsing Get medical attention if irritation develops or persists.

**Skin:** Wash thoroughly with plenty of water. Remove contaminated clothing. Wash contaminated clothing. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists. In the event of any complaints or symptoms avoid further exposure.

**Inhalation:** Remove to fresh air and keep comfortable for breathing. If breathing is labored administer oxygen as needed by qualified personal. If breathing remains labored get medical attention.

**Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person in conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and get medical attention immediately. Maintain an open airway.

**Most Important symptoms and effects, both acute and delayed:**

**Inhalation:** No known significant effects or critical hazards

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

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

**Ingestion:** Irritating to mouth, throat and stomach.

**Indication of any immediate medical attention and special treatment needed:**

**Skin contact:** Adverse symptoms may include skin redness or irritation.

**Eye contact:** pain or irritation, watering, redness

**Note to Physician:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Section 5 – Fire Fighting Measures**

**Suitable and Unsuitable Extinguishing Media:** Use water spray or fog, foam, carbon dioxide or dry chemical.

**Special Hazards Arising from the Chemical:** This compound will not burn unless it is pre-heated. Water fog may be used to cool the containers but do not spray directly into large containers of burning liquids as frothing may occur. Dense smoke and noxious or toxic fumes may be generated in a fire. The thermal decomposition products are highly dependent upon the combustion conditions. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

**Special Equipment and Precautions for Fire-Fighters:** Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

**Section 6 – Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate personal protective equipment. Keep unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate Use appropriate personal protection equipment including gloves.

**Environmental Hazards:** Report spills and releases as required to appropriate authorities.

**Methods and Material for Containment and Cleaning Up:** Because of its viscous nature, this product is not expected to leak or spill. Collect liquid spill with an inert absorbent material and place into a suitable container for disposal.

**Section 7 – Handling and Storage**

**Precautions for Safe Handling:** Contact with skin can cause skin irritation, wear protective gloves when using this product. Persons with a history of skin sensitization problems should not use this product. Do not get in eyes. Do not ingest.

**Conditions for Safe Storage, Including any Incompatibilities:** Do not store above 95°F ( 35°C). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well ventilated area away from food or drink. Do not eat, drink or smoke when using this product.

**Section 8 – Exposure Controls / Personal Protection**

CHEMICAL NAME	EXPOSURE LIMITS
Crystalline silica non-respirable	250MPPCF, 8 hr OSHA PEL 10mg/m3, 8 hr ACGIH TLV

**Respiratory protection**

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection

must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Skin protection**

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the exposure limits. If the product is used at high temperatures, local exhaust ventilation may be required.

**Individual Protection Measures:**

**Respiratory Protection:** In operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with organic vapor/particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Skin Protection:** Impervious gloves such as rubber or nitrile recommended where needed to avoid prolonged skin contact .

**Eye Protection:** Safety glasses or goggles recommended where needed to avoid eye contact.

**Section 9 – Physical and Chemical Properties**

<b>Appearance:</b> Copper Beige color, stick form	<b>Vapor Density (air = 1):</b> not available
<b>Odor:</b> Pungent, Sulfurous	<b>Specific Gravity:</b> 1.96
<b>Odor Threshold:</b> Not established	<b>Water Solubility:</b> Not soluble
<b>pH:</b> Not available	<b>Octanol/Water Partition Coefficient:</b> Not available
<b>Melting Point/Freezing Point:</b> not available	<b>Autoignition Temperature:</b> Not available
<b>Boiling Point:</b> Does not apply	<b>Decomposition Temperature:</b> >390°F (>200°C)
<b>Flash Point:</b> product does not sustain combustion	<b>Viscosity:</b> Not available

<b>Evaporation Rate:</b> Does not apply	<b>Explosion Properties:</b> None
<b>Flammable Limits:</b> <b>LEL:</b> Not established <b>UEL:</b> Not established	<b>Oxidizing Properties:</b> Not oxidizing
<b>Vapor Pressure:</b> Not established	<b>Aerosol Fire Protection Level:</b> Not applicable
	<b>Flammability (solid, gas):</b> does not apply

### Section 10 – Stability and Reactivity

**Reactivity:** Not reactive under normal conditions of use.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use hazardous reactions will not occur.

**Conditions to Avoid:** No specific data

**Incompatible Materials:** No specific data.

**Hazardous Decomposition Products:** Not expected under normal conditions of use. The thermal decomposition products are highly dependent upon the combustion conditions. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

### Section 11 – Toxicological Information

**Acute Toxicity:**

2,4,6-tris(dimethylaminomethyl)phenol: LD50, Dermal, Rat 1280mg/kg  
LD50, Oral, Rat, 1200mg/kg

**Irritation Parameters:**

**Reaction product:** Bisphenol-A-(epichlorhydrin) Epoxy resin: Eyes: Mild Irritant, Rabbit, 100 mg  
Skin: Moderate irritant, Rabbit 24 hr 500 micro liters  
Skin, Severe irritant, Rabbit, 24 hr , 2 milligrams  
2,4,6-tris(dimethylaminomethyl)phenol: Skin, mild irritant, Rat, 0.025 milliliters  
Skin, Severe irritant, Rat, 0.25 milliliters  
Skin, Severe irritant, Rabbit, 24 hr, 2 milligrams

**Sensitization:** no specific data

**Mutagenicity:** no specific data

**Carcinogenicity:** No Specific data ( see below)

**Conclusion/Summary:**

Sanding the cured product may release particles containing talc with the polymer and other components of the matrix into the air. The talc contains less than 1% crystalline silica. Appropriate evaluations of the use of the product should be performed to determine if exposure to talc occurs due to handling and use. If such exposures occur, appropriate precautions must be taken to prevent exposure in excess of the OSHA Permissible Exposure Limit ( PEL).

**Classification:**

Crystalline silica, non-respirable, IARC 1, NTP: Known to be a human carcinogen.

**Reproductive Toxicity:** No specific data

**Tetatoxicity:** No specific data

**Potential Health Effects:**

**Eye:** May cause mild irritation.

**Skin:** Prolonged contact may cause mild irritation of the skin.

**Inhalation:** No adverse effects expected at ambient temperatures. Inhalation of vapors and fumes from thermal decomposition may cause respiratory irritation. If sanding or grinding the cured material wear a dust respirator to avoid breathing in the dust. Sanding the cured product may release particles containing talc with the polymer and other components of the matrix into the air. The talc contains less than 1% crystalline silica. Appropriate evaluations of the use of the product should be performed to determine if exposure to talc occurs due to handling and use. If such exposures occur, appropriate precautions must be taken to prevent exposure in excess of the OSHA Permissible Exposure Limit ( PEL)

**Ingestion:** Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea

**Chronic Hazards:** Prolonged inhalation of thermal decomposition products may result in lung damage.

**Carcinogen Status:** crystalline silica >1%, non-respirable unless sanding, grinding occurs. See above.

<b>Section 12 – Ecological Information</b>
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**Ecotoxicity:** No specific data

**Bioaccumulative Potential:**

Reaction product: Bisphenol-A-(epichlorhydrin);epoxy resin.

LogPow: 2.64-3.78

BCF: 31

Potential: low

2,4,6-tris(dimethylaminomethyl)phenol

LogPow: 0.219

BCF: No Data

Potential: low

**Mobility in Soil:** No specific data.

**Other Adverse Effects:** No known significant effects or critical hazards.

### Section 13 – Disposal Consideration

**Waste disposal:** Dispose of in a responsible manner. Follow local, state and federal guidelines. Do not discharge into sewers or waterways. Incineration is the preferred method of disposal, although it may be land filled at an approved facility.

### Section 14- Transport Information

#### DOT

**Proper Shipping Name:** Not regulated  
**DOT Technical Name:** None  
**DOT Hazard Class:** None  
**UN Number:** None  
**DOT Labels Required (49CFR172.101):** None

#### IMDG

**Shipping Description:** Not regulated  
**ID Number:** None  
**Hazard Class:** None  
**Packing Group:** None  
**Labels Required:** None  
**Marking Required:** None  
**Placards Required:** None

#### ICAO/IATA

**ID Number:** None  
**Hazard Class:** None  
**Packing Group:** None  
**Labels Required:** None  
**Marking Required:** None  
**Placards Required:** None

### Section 15 – Regulatory Information

**TSCA Inventory:** All components are listed or exempt  
**Clean Water Act:** copper  
**SARA 302/304:** No products found  
**SARA 311/312:** Immediate (acute) health hazard  
**SARA 313:** copper, CAS 7440-50-8, 1-5%  
**Canadian Inventory:** all components are listed or exempt.

**California Prop 65:** Warning: This product contains a chemical known to the State of California to cause cancer.  
Talc, not containing abestiform fibers, cancer  
Crystalline silica non-respirable, cancer

### Section 16 – Other Information:

The information contained herein is based on data considered accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use of his product. Therefore, because the product may be used under conditions beyond our control, we assume no liability for its use.