

## 1. Identification

Product Identifier: **2222 METALLIX EPOXY HARDENER PART-B**

Use: Epoxy Curing Agent. For Industrial/Professional use only.

Manufacturer: Granicrete International. Inc.  
4602 S 36<sup>th</sup> St  
Phoenix, AZ 85040

Phone Number: 602-438-9464

Emergency Phone: PERS 800-633-8253  
001-801-629-0667

## 2. Hazards Identification

### GHS Classification:

Acute Toxicity (oral) – Category 4  
Acute Toxicity (inhalation) – Category 4  
Skin Corrosion – Category 1C  
Serious Eye Damage – Category 1  
Skin Sensitization – Category 1  
Reproductive Toxin – Category 2  
Hazardous to the Aquatic Environment – Acute Hazard Category 3  
Hazardous to the Aquatic Environment – Chronic Hazard Category 3

Label Elements: Danger



### Hazard Phrases:

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H361 Suspected of damaging fertility or the unborn child.  
H402 Harmful to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary Phrases:

P203 Obtain, read and follow all safety instructions before use.  
P260 Do not breathe mists.  
P264 **Wash thoroughly after handling.**  
P270 **Do not eat, drink, or smoke when using this product.**  
P271 **Use only outdoors or in a well-ventilated area.**  
P272 **Contaminated work clothing should not be allowed out of the workplace.**  
P273 **Avoid release to the environment.**  
P280 Wear protective gloves, protective clothing, eye protection, and face protection.  
P301+P317 IF SWALLOWED: Get medical help.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P316 Get emergency medical help immediately.  
P317 Get medical help.  
P318 IF exposed or concerned, get medical advice.  
P330 Rinse mouth.  
P333+P317 If skin irritation or rash occurs: Get medical help.  
P362+P364 Take off contaminated clothing and wash before reuse.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

**Supplemental Information:** This is one part of a two-part system. Read and understand the hazard information on resin before using.

## 3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Modified Cycloaliphatic Amines	Proprietary	85
Other Trade Secret Ingredients	Proprietary	15
Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentrations limits.		

## 4. First-Aid Measures

**Eye Contact:** Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention immediately. Launder clothing before re-use. Discard items that cannot be decontaminated.

**Inhalation:** If inhaled, remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention immediately.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

**Most Important Symptoms/Effects:** Harmful if swallowed and inhaled.

**Indication of Immediate Medical Attention/Special Treatment:** Get immediate emergency medical help if on skin, in eyes, ingested or inhaled.

## 5. Fire-Fighting Measures

**Extinguishing Media:** Use foam, carbon dioxide, water fog or dry chemical.

**Specific Hazards:** Not classified as flammable or combustible.

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

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors. Ventilate area.

**Methods and Materials for Containment and Cleanup:** Do not discharge material into waterways. Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid release to the environment.

## 7. Handling and Storage

**Safe Handling:** Obtain, read, and follow instructions before use. Avoid contact with eyes, skin, and clothing. Do not breathe fumes, vapors, or mists. When using, do not eat, drink, or smoke. Use outdoors or with properly positioned local exhaust ventilation to prevent exposure. Wash thoroughly after handling. Keep container closed when not in use.

**Safe Storage:** Store indoors at temperatures between 40°F and 95°F. Store in original, unopened containers away from incompatible materials, open flames, and high temperatures.

## 8. Exposure Controls/Personal Protection

### Occupational Exposure Limits:

For N,N-polyamine (CAS: 98-94-2):  
ACGIH TLV 2ppm TWA

**Ventilation:** Use with properly positioned local exhaust ventilation to prevent exposure and maintain air levels below the occupational exposure limits.

**Respiratory Protection:** If ventilation is not adequate, use a NIOSH-approved respirator with organic vapor cartridges or supplied air. Respirator selection and use should be based on contaminant type, form, and concentration. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

**Skin Protection:** Wear impervious gloves, such as butyl rubber or nitrile rubber.

**Eye Protection:** Wear chemical safety goggles or face shield.

**Other Protective Measures:** Wear impervious clothing to prevent skin contact and contamination of personal clothing. An eye wash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

## 9. Physical and Chemical Properties

**Appearance:** Liquid, clear

**Odor:** Mild, epoxy

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point/Freezing Point:** No data available

**Boiling Point:** >400°F

**Flash Point:** >200°F

**Evap. Rate:** No data available

**Flamm. Limits:** No data available

**Vapor Pressure:** 10.4 mmHg

**Vapor Density:** No data available

**Relative Density:** No data available

**Solubility:** Insoluble in water

**Partition Coefficient: n-octanol/Water:** No data available

**Auto-Ignition Temp:** No data available

**Decomposition Temp:** No data available

**Viscosity:** 455mPa.s at 73°F

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable under recommended conditions.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid:** None known.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.

## 11. Toxicological Information

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

**Skin Contact:** Harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction.

**Inhalation:** Harmful if inhaled.

**Ingestion:** No data available.

**Chronic Health Effects:** May cause an allergic skin reaction.

**Acute Toxicity Values:** For Nonyl Phenol (CAS 84852-15-3):  
Oral LD<sub>50</sub> Rat: 1,246 mg/kg

For Benzyl Alcohol (CAS 100-51-6):

Inhalation LC50 Rat: 4.178 mg/L, 4 hr

**Respiratory Sensitization:** This product is not considered a respiratory sensitizer.

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

**Germ Cell Mutagenicity:** Components are not classified as mutagens.

**Carcinogenicity:** Components are not classified as carcinogens.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity:** No data available.

## 12. Ecological Information

**Ecotoxicity:** Harmful to aquatic life with long-lasting effects. Avoid release to the environment.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

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

## 13. Disposal Considerations

Do not discharge into waterways. Dispose according to local, state, and federal regulations.

## 14. Transport Information

**DOT:** UN2735 Amines, liquid, corrosive. n.o.s. (Polyamine), 8, III. LTD QTY if shipped in quantities of 5L (1.32gal) or less.

**IATA/IMDG:** UN2735 Amines, liquid, corrosive. n.o.s. (Polyamine), 8, III.

**Emergency Shipping Information:** PERS 800-633-8253  
001-801-629-0667.

## Regulatory Information

### U.S. FEDERAL REGULATIONS:

**CERCLA 103 Reportable Quantity:** Components are not subject to CERCLA reporting requirements. Some states have more stringent reporting requirements.

**SARA TITLE III Section 311/312:** Acute/Chronic Health Hazard

**Section 313 Toxic Chemicals:** This product contains chemicals subject to SARA Title III Section 313 reporting requirements:

Nonyl Phenol (CAS 84852-15-3): 20-30%

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on TSCA.

### STATE REGULATIONS:

**California Proposition 65: WARNING:** This product can expose you to chemicals including Epichlorohydrin, which is known to the State of California to cause cancer and/or reproductive harm.

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 15. Other Information

**Training Advice:** All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

**Recommended Uses and Restrictions:** This product is intended for industrial use only.

**SDS Revision Notes:** None

## 16. Disclaimer

The information contained herein is considered accurate; however, Granicrete International, makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.