GRANICRETE INTERNATIONAL

SAFETY DATA SHEET
ORIGINAL DATE: 01-21-2024
REV. DATE: 07-31-2024

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: MVR9 FC EPOXY PART B
PRODUCT CODES: 2209 SERIES PART B
PRODUCT USE: Coatings Material – Clear.
MANUFACTURER: Granicrete International, Inc.
ADDRESS: 4602 S 36th Street, Phoenix, AZ 85040 **PHONE:** (602) 438-9464
24-7 EMERGENCY PHONE WITH PERS: 800-633-8253

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Category
Acute toxicity - Oral	4
Skin corrosion -	1C
Serious Eye Damage	1
Skin sensitization	1
Repeated oral exposure	2

GHS PICTOGRAM

Signal Word **DANGER**
Appearance Clear Viscous Liquid
Physical State Liquid
Odor Solvent
Hazard Statements:
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H373: May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary Statements:
P202: Do not handle until all safety precautions have been read and understood.
P223: Keep container tightly closed.
P102: Keep out of reach of children.

Prevention Statements:
P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264: Wash skin thoroughly after handling. Do not eat, drink or smoke when using product.
P272: Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response Statements:
P301: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304: IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P305: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311: Call a POISON CENTER or doctor/ physician if you feel unwell.
P362: Take off contaminated clothing and wash before reuse.
P337: If skin irritation or rash occurs: Get medical advice/ attention.
P337+313: If eye irritation persists: Get medical advice/ attention.
P370+378; In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.

Storage Requirements:

P403+233: Store in a well-ventilated cool place. Keep container tightly closed. Store locked up.

Disposal Requirements:

P501: Dispose of contents/ container to local and regional waste disposal requirements.

Hazards not otherwise classified:

Combustible
Severe eye irritant
Severe respiratory irritant
May cause sensitization by skin

SECTION 3: COMPOSITION - INGREDIENTS

COMPONENT	CAS #	% BY WEIGHT
Modified Cycloaliphatic Amine Reaction Product	TS	50-60
Benzyl alcohol	100-51-6	10-25
Tris-2,4,6-(dimethylaminomethyl)phenol)	90-72-2	<10

Note: This product may contain additional ingredients that are proprietary, or non-hazardous, or in small concentration not meeting disclosure requirements.

SECTION 4: FIRST-AID MEASURES

General Advice: Move out of dangerous area. Consult a physician with this SDS. Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately..

Eye Contact: Immediate and continuous irrigation with flowing water for at least 30 minutes is required. Promptly seek medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing, preferably under a safety shower. Seek medical attention immediately. Avoid prolonged or repeated contact to skin. Wash thoroughly after handling.

Inhalation: Move to fresh air and keep at rest in a position comfortable for breathing. If not breathing or breathing is irregular, provide artificial respiration or give oxygen by trained personnel. Get medical attention immediately.

Ingestion: Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Rinse mouth with water. Get medical attention immediately. Repeated and/or prolonged exposure.

Most Important Symptoms/Effect, Acute and Delayed: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat, eye disease, skin disorders, allergies, asthma, and neurological disorders.

Immediate Medical Attention and Special Treatment: Note to Physicians: Corrosive. May cause stricture. lavage is performed, suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. Application of corticosteroid cream has been effective in treating skin irritation.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (% BY VOLUME): UPPER LIMITS: N/A LOWER LIMITS: N/A
FLASH POINT: 213 °F (100.56°C)
METHOD USED: PMCC
NFPA HAZARD RATING: 4 = EXTREME; 3 = HIGH; 2 = MODERATE; 1 = SLIGHT; 0 = MINIMAL

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
OTHER:	N/A

EXTINGUISHING MEDIA: Water, fog, alcohol foam, CO2, or Dry Chemical
FIRE FIGHTING PROCEDURES: Wear positive pressure SCBA
UNUSUAL FIRE AND EXPLOSION HAZARDS: Use full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Producers
Wear suitable protective clothing, gloves, and eye/face protection. Avoid breathing vapors/mist/gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning-Up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Put on appropriate personal protective equipment before handling. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.
Ground all transfer equipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Good general housekeeping procedure should be followed. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

Conditions for Safe Storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hygiene Practice
Eating, drinking, and smoking should be prohibited in areas where this material is handled. Wash hands thoroughly after handling.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

N/A

Engineer Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below recommended exposure limits.

Wear appropriate personal protective equipment where such systems are not effective to perform satisfactorily and meets OSHA or other recognized standards. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protection Equipment

Eye/Face Protection	Tightly fitted safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after handling or before eating, drinking, or smoking. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Body Protection	Impervious clothing. Closed-toe shoe. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Environmental Exposure Controls	Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewers or waterways.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Viscous liquid
Color	Amber color
Odor	Amine
Odor Threshold	No data available
pH	No data available
Melting Point / Freezing Point	No data available
Boiling Point/Range	400F, 205C
Flash Point / Evaporation Rate	No data available
Flammability (solid/gas)	No data available
Upper/lower Flammability Limit / Vapor Pressure	<10.35mmHg
Vapor Density	Water =1 … 5.88
Relative Density	1.175 g/cm3 at 77F
Specific Gravity	1.01
Partition Coefficient: n-octanol/water	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	450mPa.s @ 73F
Explosive Properties	No data available
Oxidizing Properties	No data available

SECTION 10: STABILITY AND REACTIVITY

SECTION 10. STABILITY AND REACTIVITY

Control Parameters	No data available
Chemical Stability	Can react strongly with resins at elevated temperatures.
Possibility of Hazardous Reaction	Avoid uncontrolled resin quantities.
Conditions to Avoid	Can react strongly with resins at elevated temperatures.
Incompatible Materials	Reactive metals (Sodium, Calcium, Zinc, etc.) Materials reactive with hydroxyl compounds Organic acids (acetic acid, citric acid, etc.) Mineral acids Sodium hypochlorite Product slowly corrodes copper, aluminum, zince, and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents
Hazardous Decomposition Products	Nitrogen oxides (NOx) Nitrogen oxide can react with water vapors to form corrosive nitric acid. In the event of fire: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure

Eye Contact	Cause eye irritation
Skin Contact	Cause skin irritation
Inhalation	Allergic Reaction
Ingestion	Irritation

Symptoms Related to Physical, Chemical, and Toxicological Effects

Ingestion: Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat. Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Skin Contact: Prolonged or widespread skin contact may result in absorption of harmful amounts.

Skin: Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage. Skin contact has caused allergic skin reactions in certain sensitized individuals.

Eyes: May cause pain disproportionate to the level of irritation to eye tissues. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Inhalation: May cause allergic respiratory response. Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

Chronic Toxicity / Effects from Long Term Exposure

Sensitization	Skin sensitizer
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific Target Organ Systemic Toxicity (Single Exposure)	No data available
Specific Target Organ Systemic Toxicity (Repeated Exposure)	No data available

Products Numerical Measures of Toxicity Not determined

Additional Information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Life	No data available
Persistence and Degradability	No data available
Bio accumulative Potential	No data available
Mobility in Soil	No data available
Results of PBT and vPvB Assessment	No data available as chemical safety assessment not required/not conducted.

Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste/Unused Products

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.
This product should not be allowed to enter drains, water courses or the soil.
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contact supplier if guidance is required.

Contaminated Packaging

Dispose of container and unused contents in accordance with federal, state, and local requirements.

SECTION 14: TRANSPORTATION INFORMATION

DOT (US)	UN2735, Amines, liquid, corrosive, n.o.s. (Polyamine), 8, III Packaged in 5 liters (1.3 gallons) or less is acceptable as Limited Quantity.
IMO/IMDG	UN2735, Amines, liquid, corrosive, n.o.s. (Polyamine), 8, III
ICAO/IATA	UN2735, Amines, liquid, corrosive, n.o.s. (Polyamine), 8, III

SECTION 15: REGULATORY INFORMATION

UNITED STATES

TSCA 8 (b) Inventory Status

All Components are listed or exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification

None above reporting de minimus

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 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, Section 313.

SARA 311/312 Hazards

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	Yes

California Prop. 65 Components

This product may contain chemical known to the State of California to cause birth defects or other reproductive harm.

CANADA

CEPA DSL/NDSL Status All components are listed or exempt from listing on the Domestic Substances List.

SECTION 15 NOTES: If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449. The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

SECTION 16: OTHER INFORMATION

HMIS Rating

Health Hazard	2
Flammability	1
Physical Hazard	0

NFPA Rating

Health Hazard	2
Fire Hazard	1
Reactivity Hazard	0

Disclaimer

The information provided in 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 designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered 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 materials or in any process, unless specified in the text. It is required that each recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given.