

SECTION 1: Identification

Product Name: Granicrete EPOXY CRACK PATCH GEL 4H PART-A RESIN

Origin Date: 6-11-2019

Product Code: 2203 - 64

Package: 32 oz / .945L container

Product Description: Floor Coating Resin Color: Black Odor: Moderate

Intended Use: decorative, restorative

Company - Manufacturer: Granicrete International, Inc.

1130 W. Alameda Drive, Ste 5, Tempe, AZ 85282 USA

Web Address: www.Granicrete.com

Contact General: Domestic ... 1-602-438-9464 International ... 001-602-438-9464

Non-emergency email: safety@granicrete.com

Contact 24-Hour Emergency:

PERS Domestic at 1-800-633-8253

PERS International at 001-801-629-0667

SECTION 2: Hazard(s) Identification

Globally Harmonized System (GHS)

Classification: HAZARDOUS

Skin Irritant:	2
Eye Irritant:	2A
Skin Sensitization:	1
Acute Aquatic:	2
Chronic Aquatic:	2

GHS Label Elements:



Signal Word: **WARNING!**

Hazard Statements:

H315: Causes skin irritation

H332: Harmful if inhaled

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317: May cause an allergic skin reaction

H304: May be fatal if swallowed and enters airway

H335: May cause respiratory irritation

Precautionary Statements:**Prevention:**

- P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing dust / fume / gas / mist / vapors / spray
P280: Wear gloves / clothing / eye/ face protection
P271: Use outdoors or well-ventilated area
P260: Do not breathe dust/gas/mist/vapors
P273: Avoid release to the environment
P284: (In case of inadequate ventilation) wear respiratory protection.
P272: Contaminated work clothing should not be allowed out of the workplace
P264: Wash with plenty of water and soap thoroughly after handling

Response

- P303+P361+P353: If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338: If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P313: If eye irritation persists: get medical advice/attention
P304+P341+P311: If inhaled: if breathing is difficult remove to and make comfortable for breathing. Call a poison center or doctor/physician
P301+P310: If swallowed: immediately call a poison center or doctor/physician
P331: Do not induce vomiting
P370+P378: In case of fire: use dry chemical, carbon dioxide (co2), foam, or water spray (for large fires) to extinguish

Storage

- P403+P235: Store in a well-ventilated place. Keep cool
P233: Keep container tightly closed

Disposal

- P501: Dispose of contents/container to an approved waste disposal plant

Other hazards

No data available

SECTION 3: Composition and Information on Ingredients

Ingredients / Components	CAS #	EC #	WT%
Propane, 2,2-bis{p-(2,3-epoxypropoxy)phenyl}-, polymers	25085-99-8		60-90%
Alkyl(C12-14) glycidyl ether	68609-97-2		<20%

Synthetic Amorphous, Pyrogenic Silica	112945-52-5		<20%
OTHER PROPRIETARY INGREDIENTS			<15%

SECTION 4: First-Aid Measures

General: Remove person from affected area and make comfortable. Treat symptomatically.

Eyes: Flush with water for 15 minutes. Get medical attention.

Skin: Remove product and flush affected area with water for 15 minutes. Follow with soap and water. If irritation persists get medical attention. Leather shoes and clothing cannot be cleaned and should be disposed of properly.

Inhalation: Move to fresh air. Give assisted respiration if breathing has stopped or is labored (call a physician).

Ingestion: Wash mouth with water and remove dentures or tooth prosthetics. If swallowed give small quantities of water to drink if person is conscious. Do not induce vomiting! Obtain medical care and treatment.

SECTION 5: Fire-Fighting Measures

Flash point: >177C (350F) TCC

Flammable limits: LEL: NE UEL: NE

OSHA class: Not regulated

Hazardous combustion products: ND

Sensitivity to impact: ND

Conditions of flammability: NA

Relative Density: 1.1

Auto ignition temp: NA

Vapor Pressure: Approximately 1.22MB

Sensitivity to static discharge: ND

Extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment.

Special fire-fighting procedures: Wear self-contained breathing apparatus and protective clothing. Water spray is useful in cooling fire-exposed vessels and in dispersing vapors.

Unusual fire and explosive hazards: Decomposition products may include the following materials: carbon oxides. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.

SECTION 6: Accidental Release Measures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SECTION 7: Handling and Storage

General: Avoid prolonged or repeated contact with skin. Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization

problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire. Application of a direct flame to a container of liquid epoxy resin can also cause explosion and/or fire. See Section 8, Exposure Controls and Personal Protection

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Note: This resin may be handled, shipped and stored at elevated temperature in bulk. Recommended pumping and storage temperature for bulk shipments is 60 degrees C (140 degrees F).

Storage temperature: 2 – 43 degrees C (36 – 109 degrees F)

Shelf Life – Use within 24 months

SECTION 8: Exposure Control and Personal Protection



Exposure Limits:

Ingredients (cas)	OSHA		ACGIH		OTHER
	TWA	STEL	TWA	STEL	
25068-38-6	NE	NE	NE	NE	
68609-97-2	NE	NE	NE	NE	

Legend: (m) max. Exposure limit; (s) occupational exp. Limit; (r) suppliers rec. Limit, (+) percutaneous risk

Note 1: values meaningful only when hardened product is abraded, ground, etc.

Engineering controls: Exhaust ventilation sufficient to keep airborne concentration of the solvents below their respective TLVs. Exhaust air may need to be cleaned by Scrubbers or filters to reduce environmental contamination.

Protective gloves: Nitrile rubber

Eye protection: Splash-proof goggles or chemical safety glasses

Respiratory protection: None required in adequately ventilated areas. If vapor concentration exceeds 20ppm for longer than 15 minutes, a NIOSH approved respirator for organic vapors is recommended.

Other protective equipment: Long sleeved shirts and trousers. Emergency showers and eye wash stations should be readily accessible.

SECTION 9: Physical and Chemical Properties

Boiling point: > 148 C (>300 F)

Vapor pressure: <0.06 mmHg @ 21 C

Relative density: 1.4

Solubility in water: Insoluble

Specific gravity: ND

Melting point: ND

Evaporation rate: <1

pH: NA

Coefficient of water/oil distribution: ND

Odor threshold: ND

Appearance and odor: Blackish paste with odor

% volatiles by volume: 0 %

Solids by weight: 100%

SECTION 10: Stability and Reactivity

Stability: Stable

Conditions to avoid: Avoid heat over 300C (572F)

Incompatibility (material to avoid): Oxidizing agents (perchlorates, nitrates), strong acids, aliphatic amines.

Hazardous decomposition products: Under normal conditions shall not occur.

Hazardous polymerization (reactivity): Will not occur

SECTION 11: Toxicological Information

Likely routes of exposure: eye contact, skin contact, inhalation, ingestion.

Eyes:

Acute – May cause eye irritation

Chronic – Unlikely corneal damage

Skin contact:

Acute – Repeated or prolonged skin contact can result skin irritation or burns.

Chronic – May cause effects of redness or rash.

Skin absorption:

Acute – May cause eye irritation

Chronic – May cause allergic reaction

Inhalation:

Acute – May cause irritation and coughing

Chronic - ND.

Ingestion:

Acute – No specific data

Chronic – No specific data

Acute toxicity: No data on the product itself

Acute oral toxicity- components

LD50: >5,000mg/kg SPECIES: RAT

Acute dermal toxicity- components

LD50: >20,000 mL/kg SPECIES: RABBIT

Acute inhalation toxicity- components

LC50 (4 HR): ND

Skin corrosion/irritation: Slightly irritating

Serious eye damage/eye irritation: Slightly irritating, corneal injury not likely

Specific target organ systemic toxicity (single exposure): ND)

Specific target organ systemic toxicity (repeated exposure): ND

Carcinogenic data:

Teratogenicity: ND

Mutagenicity: ND

Embryotoxicity: ND
Synergistic material: ND

SECTION 12: Ecological Information

Toxicity

Aquatic toxicity: Toxic with long lasting effects.

Acute toxicity to fish- components

LC50 (96 HRS): 2 mg/l SPECIES: TROUT

Acute toxicity to aquatic invertebrates: components

EC50 (96 HRS): 1.8 mg/l SPECIES: DAPHNIA

Acute toxicity to algae/aquatic plants: components

EC50 (18HRS): 11 gm/l

Toxicity to bacteria: components

IC50 (18 HRS): > 52.6 mg/l

Chronic aquatic toxicity and chronic toxicity to aquatic invertebrates

Acceptable Tolerance Level met

Persistence and degradability

ND

Bio-accumulative potential

ND

Mobility in soil

ND

SECTION 13: Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

DOT proper shipping name: NOT REGULATED

Packing group: NA

DOT product rq lbs (kgs): NA

Hazard class: NA

IMO shipping data:

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Epoxy Resin), 9, PGIII

ICAO/IATA shipping data:

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Epoxy Resin), 9, PGIII

SECTION 15: Regulatory Information

VOC: 0gms/l As applied: 0gms/l

USDOL – OSHA & MSHA Hazard Communication per Rule 29 CFR 1920.1200

Considered a hazardous chemical under this regulation, and should be part of any hazard communication program

TSCA (USA - Toxic Substance Control Act)

Some substances in product are on the TSCA inventory list: EPICHLOROXYDRIN

SARA Title III (USA – Superfund Amendments and Reauthorization Act)

311/312 Hazard categories: Acute and delayed

313 Reportable Ingredients: None required

CERCLA (USA – Comprehensive Response Compensation and Liability Act)

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

THIS PRODUCT CONTAINS A CHEMICAL TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. OXIRANE, (PHENOXYMETHYL)—122-60-1, EPICHLOROXYDRIN – 106-89-8

Federal Hazardous Substance Act

Considered a hazardous substance subject to the statutes promulgated under the subject act.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL

Canada and Other Countries:

WHMIS (CANADA) CLASS D-2B: MATERIAL CAUSING OTHER TOXIC EFFECTS (TOXIC)

CANADIAN LISTS CANADIAN NPRI: NONE REQUIRED

INTERNATIONAL REGULATIONS:

CHEMICAL INVENTORIES

EUROPE INVENTORY – ALL COMPONENTS ARE LISTED OR EXEMPT

AUSTRALIA INVENTORY (AICS) – ALL COMPONENTS ARE LISTED OR EXEMPT

CHINA INVENTORY (IECSC) – ALL COMPONENTS ARE LISTED OR EXEMPT

KOREA INVENTORY (KECI) – ALL COMPONENTS ARE LISTED OR EXEMPT

PHILLIPINES INVENTORY (PICCS) – ALL COMPONENTS ARE LISTED OR EXEMPT

JAPAN INVENTORY (ENCS) – ALL COMPONENTS ARE LISTED OR EXEMPT

UNITED STATES INVENTORY (TSCA 8B) – ALL COMPONENTS ARE LISTED OR EXEMPT

CANADA INVENTORY – ALL COMPONENTS ARE LISTED OR EXEMPT

SECTION 16: Other Information

HMIS Hazard Rating:

Health	1
Flammability	1
Reactivity	0

Recommended restriction: This product is for use by trained professionals after having read the complete SDS.

Key Legend:

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H - statement: Hazard Statement
IATA: International Air Transport Association.
IATA - DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization
ICAO - TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"
IMDG: International Maritime Code for Dangerous Goods
ISO: International Organization for Standardization
logPow: octanol - water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx: Lethal Dose, for xx percent of test population.
ICxx: Inhibitory Concentration for xx of a substance
Ecxx: Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD: Organization for Economic Co - operation and Development
OEL: Occupational Exposure Limit
P - Statement: Precautionary Statement
PBT: Persistent, Bio-accumulative and Toxic
PPE: Personal Protective Equipment
STEL: Short - term exposure limit
STOT: Specific Target Organ Toxicity
TLV: Threshold Limit Value
TWA: Time - weighted average
vPvB: Very Persistent and Very Bio-accumulative
WEL: Workplace Exposure Level
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
DOT: Department of Transportation
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC: Hazardous Materials Information Review Commission
HMIS: Hazardous Materials Identification System
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PMRA: Health Canada Pest Management Regulatory Agency
RTK: Right to Know
WHMIS: Workplace Hazardous Materials Information System

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