

# **SAFETY DATA SHEET**

## **SECTION 1: Identification**

Product Name: Granicrete EPOXY CRACK PATCH GEL 4H PART-B HARDENER Origin Date: 6-11-2019 Product Code: 2203 - 64 Package: 32 oz / .945L container Product Description: Floor Coating Hardener Color: Clear 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:

Acute Toxicity - Oral	Category 4	
Acute Toxicity - Inhalation	Category 4	
Acute Toxicity - Dermal	Category 4	
Skin Corrosion	Category 1B	
Serious Eye Damage	Category 1	
Skin Sensitization -	Category 1	
Reproductive toxicity -	Category 2	
Specific target organ toxicity - repeated exposure - Oral Category 2		

#### **GHS Label Elements:**



#### Signal Word: DANGER!

#### 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

#### **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

Ingredients / Components	CAS #	EC #	WT%
Nonylphenol	84852-15-3		<50%

## **SECTION 3: Composition and Information on Ingredients**

Synthetic Amorphous, Pyrogenic Silica	112945-52- 5	<20%
Methylenebiscyclohexanamine, 4,4'-	1761-71-3	<20%
OTHER PROPRIETARY INGREDIENTS		<20%

# **SECTION 4: First-Aid Measures**

General: Remove person from affected area and make comfortable. Treat symptomatically.
Eyes: Hold eyelids apart. 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 3-4 glasses of milk or water to drink if person is conscious. Do not induce vomiting! Obtain medical care and treatment.

## **SECTION 5: Fire-Fighting Measures**

Flash point: >100C, 212F 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:** Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Dry sand. Limestone powder. **Special fire-fighting procedures:** May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire-fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.

Unusual fire and explosive hazards: Material may burst in container in fire or similar heat related environment.

# **SECTION 6: Accidental Release Measures**

Steps to be taken in case material is released or spilled: Dilute and mop. Cover spills with absorbent. Place in waste disposal containers for recovery or disposal. Prevent entry into sewers, storm drains, and waterways. Approach from upwind. Contact local officials per code.

# **SECTION 7: Handling and Storage**

**General:** Wear personal protective equipment. Do not eat, drink, or smoke near material. Wash hands and face before eating, drinking, or smoking. Keep away from heat and open flames. Avoid prolonged inhalation of heated vapors or mists. Avoid prolonged skin contact.

**Storage:** Avoid temperature extremes. Store away from excessive heat, from sources of Ignition and from reactive materials. Material can burn; limit indoor storage to areas equipped with automatic sprinklers. Store out of direct sunlight in a room temperature environment. Keep containers tightly closed.

# **SECTION 8: Exposure Control and Personal Protection**



#### **Exposure Limits:**

Ingredients (cas)	OSHA		ACGIH		OTHER
	TWA	STEL	TWA	STEL	
25154-52-3	NE	NE	NE	NE	
1761-71-3	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. N/E – Not Established

**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: >210C (410F) Vapor pressure: <2 MB Density: 61.804 lb/ft<sup>3</sup>

Solubility in water: Not very <1% Coefficient of water/oil distribution: ND Appearance and odor: Clear gel with odor % volatiles by volume: 0 % Specific gravity: 0.98 Melting point: ND Evaporation rate: < 1 mmHg (Ether = 1) pH: Alkaline, 10 Odor threshold: ND

Solids by weight: 100%

## **SECTION 10: Stability and Reactivity**

Stability: Stable

Conditions to avoid: Avoid heat over 300F (148C)

**Incompatibility (material to avoid):** Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Oxidizing agents.

**Hazardous decomposition products:** Aldehydes. Flammable hydrocarbon fragments. Nitrosamine. Nitrogen oxides (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Ammonia. Nitric acid. Carbon monoxide. Carbon dioxide (CO2)

## **SECTION 11: Toxicological Information**

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

Eyes:

Acute – Causes eye burns. May cause blindness. Severe eye irritation.

#### Skin contact:

May cause burning and sensation loss.

#### Skin absorption:

Acute – If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

#### Inhalation:

Acute – Can cause severe eye, skin and respiratory tract burns

#### Ingestion:

Acute – Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

#### Acute toxicity: No data on the product itself

#### Acute oral toxicity- components

LD50: >1,620 mg/kg SPECIES: RAT

Acute dermal toxicity- components

LD50: > 1,000 mg/kg SPECIES: RABBIT

Acute inhalation toxicity- components

LC50 (1 h) : > 20 mg/l SPECIES: RAT

Skin corrosion/irritation: Corrosive in an in vitro test

Serious eye damage/eye irritation: Severe irritation

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

Specific target organ systemic toxicity (repeated exposure): ND

#### Carcinogenic data:

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas. Neurological disorders, Asthma, Skin disorders and Allergies, Eye disease.

# **SECTION 12: Ecological Information**

Toxicity		
Aquatic toxicity: No data of its own.		
Acute toxicity to fish- components		
84852-15-3	LC50 (96 HRS): <0.128mg/l	SPECIES: FISH
1761-71-3	LC50 (96 HRS): <46mg/l	SPECIES: FISH
Acute toxicity to aquatic invertebrates:	components	
84852-15-3	EC50 (48 HRS): <0.0848 mg/l	SPECIES: DAPHNIA
1761-71-3	EC50 (48 HRS): <6.48 mg/l	SPECIES: DAPHNIA
Acute toxicity to algae/aquatic plants: c	omponents	
1761-71-3	EC50 (18HRS): 140-200 mg/1	SPECIES: ALGAE
Toxicity to bacteria: components		
ND		
	———— Раде 5	

Chronic aquatic toxic	i <b>ty and chronic toxicity to aquatic invertebrates</b> Acceptable Tolerance Level met		
Persistence and degradability			
	Biodegradability: ND		
Bio-accumulative potential			
	Bioaccumulation: ND		
	Partition coefficient: ND		
Mobility in soil			
	ND		

## **SECTION 13: Disposal Considerations**

Methods of disposal: Incineration is preferred. This product should not be allowed to enter drains, water courses or the soil. This material may be safely landfilled in accordance with federal, state, and local environmental control regulations.

#### **Section 14: Transport Information**

DOT proper shipping name:	
UN 2735 AMIN	ES, LIQUID, CORROSIVE, N.O.S., (Nonyl Phenol, 4,4'- Methylenebiscyclohexanamine), 8, III
Packing group:	III
DOT product rq lbs (kgs):	NA
Hazard class:	8
IMO shipping data:	
UN 2735 AMIN	IES, LIQUID, CORROSIVE, N.O.S., (Nonyl Phenol, 4,4'- Methylenebiscyclohexanamine), 8, III
ICAO/IATA shipping data:	
UN 2735 AMIN	IES, LIQUID, CORROSIVE, N.O.S., (Nonyl Phenol, 4,4'- Methylenebiscyclohexanamine), 8, III

Marine Pollutant: Yes

## **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: EPICHOLOROHYDRIN

## 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 does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

## 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:**

Health3Flammability1Reactivity0

#### 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 Abs tracts 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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