

SECTION 1: Identification

Product Name: Ten Minute Treatment - Part A

Revision Date: 3/1/2021

Product Code: 8600

Package: 32 oz. / 0.91kg bottle

Product Description: Epoxy Crack Mending Color: Dark Liquid Odor: Mild Aromatic

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

2.1 Classification of the substance or mixture

Signal word: DANGER



Asp Toxicity	1	STOT SE 3
Skin Irritant	2	STOT RE 2
Eye Irritant	2A	
Acute Toxicity	4	
Skin Sensitivity	1	
Resp. Sensitivity	1	
Carcinogen	2	
Aquatic Chronic	2	

2.2 Hazard statements

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

2.3 Precautionary statements

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapors / spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P284 In case of inadequate ventilation wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P331 Do NOT induce vomiting.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER / doctor.
P312 Call a POISON CENTER / doctor if you feel unwell.

Human health dangers Persons already sensitized to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter is used.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition and Information on Ingredients

3.0 Composition / ingredients

101-68-8	4,4'-methylenediphenyl diisocyanate	10-70%
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	10-30%

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First-Aid Measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.
Consult a doctor immediately.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Consult a doctor immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Asthma attacks
Headache
Breathing difficulty
Dizziness
Coughing
Allergic reactions
Irritant to skin and mucous membranes.
Causes eye irritation.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
Vomiting.
Diarrhea.
Disorientation

4.3 Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
If necessary oxygen respiration treatment.
Later observation for pneumonia and pulmonary edema.
Contains 4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate. May produce an allergic reaction.
Treat skin and mucous membrane with antihistamine and corticoid preparations.
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.
If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Dry powder.
Carbon dioxide.
Foam.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Hydrogen cyanide (HCN).
Not combusted hydrocarbons.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Wear full protective suit.
Heat causes increase in pressure and risk of bursting - Keep away from the container.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use breathing apparatus if exposed to vapors/aerosol.
Use personal protective equipment.
High risk of slipping due to leakage/spillage of product.
Remove persons to safety.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8 and 13

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed areas.
Vacuuming in situ required.
Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.
Ground/bond container and receiving equipment.

Use explosion-proofed equipment/fittings and non-sparking tools.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
Contaminated work clothing should not be allowed out of the workplace.
Showers and eye wash stations should be provided.
Clean skin thoroughly after work, apply skin cream.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Keep away from water.
Do not store together with oxidizing agents.
Do not store together with acids and alkalies.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place. Store in a dry place.
Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure Control and Personal Protection



8.1 Control parameters - Ingredients with occupational exposure limits to be monitored

· Components:

Components with limit values that require monitoring at the workplace:

101-68-8 4,4'-methylenediphenyl diisocyanate

PEL (USA)	Ceiling limit value: 0.2 mg/m ³ , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m ³ , 0.005 ppm
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S(R)
EV (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm
LMPE (Mexico)	Long-term value: 0.005 ppm

5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm S
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8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Using suitable discharges or exhaust ventilation.

Eye protection

Safety glasses

Hand protection

The details concerned are recommendations. Please contact the glove supplier for further information.

0,7mm: Butyl rubber, >480 min

0,7mm: Nitrile rubber, >480 min

0,7mm: Neoprene, >480 min

Skin protection Protective clothing.

Other Avoid contact with eyes and skin.

Do not breathe vapor/spray.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

Respiratory protection If ventilation is insufficient, wear respiratory protection.

Thermal hazards not applicable

Delimitation and monitoring of the environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	No information available.
Odor	mild aromatic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 148°C / > 300°F
Flash point [°C]	203°C / 395°F
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density	1.23
Bulk density [kg/m³]	not applicable
Solubility in water	reacts with water
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapor density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

SECTION 10: Stability and Reactivity

10.1 Reactivity

Upon decomposition in closed containers risk of bursting due to buildup of overpressure.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalis, and oxidizing agents.

Reactions with water.

Reactions with alcohols.

Reactions with amines.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces, and sources of ignition.

Contact with moisture.

Strong heating.

Sunlight

10.5 Incompatible materials

See SECTION 10.3.

Various metals.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity: Harmful if inhaled.

LD/LC50 values that are relevant for classification:

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral LD50 2200 mg/kg (mouse)

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Causes eye irritation.

Sensitization:

Contains 4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate. May produce an allergic reaction.

May cause sensitization by inhalation and skin contact.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.
Inhalation.
Eye contact.
Skin contact.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Serious eye damage/irritation	Toxicological data of complete product are not available. Irritant Calculation method
Skin corrosion/irritation	Toxicological data of complete product are not available. Irritant Calculation method
Respiratory or skin sensitization	Toxicological data of complete product are not available. Sensitizing. Calculation method
Specific target organ toxicity / single exposure	Toxicological data of complete product are not available. May cause respiratory irritation. Vapors may cause drowsiness and dizziness. Calculation method
Specific target organ toxicity / repeated exposure	Toxicological data of complete product are not available. May cause damage to organs through prolonged or repeated exposure. Calculation method
Mutagenicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Toxicological data of complete product are not available. Suspected of causing cancer. Calculation method
Aspiration hazard	Toxicological data of complete product are not available. May be fatal if swallowed and enters airways. Calculation method
General remarks	Symptoms: abdominal pain, nausea, vomiting, and diarrhea.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity No relevant information available.

Persistence and degradability No relevant information available.

Bioaccumulative potential: No relevant information available.

Mobility in soil: No relevant information available.

Additional ecological information

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No relevant information available.

SECTION 13: Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

Product Dispose of as hazardous waste. For recycling, consult manufacturer.

Contaminated packaging Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

Section 14: Transport Information

14.1 UN number See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

UN-Number

DOT, ADR/RID/ADN, IMDG, IATA Not regulated.

UN proper shipping name

DOT, ADR/RID/ADN, IMDG, IATA Not regulated.

Transport hazard class(es)

DOT, ADR/RID/ADN, IMDG, IATA

Class Not regulated.

Packing group

DOT, ADR/RID/ADN, IMDG, IATA Not regulated.

Environmental hazards

Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory Information

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

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

311/312 Hazard categories for delayed health effects

313 Reportable Ingredients: None

CERCLA (USA – Comprehensive Response Compensation and Liability Act)

None

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

This product contains trace elements known to the State of California to cause cancer, birth defects, or reproductive harm. Per California law this warning is provided in the absence of definitive testing to prove the defined risks do not exist.

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

SECTION 16: Other Information

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

Key Legend:

H411 Toxic to aquatic life with long lasting effects.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

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

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

Abbreviations and acronyms:

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 , Bioaccumulative 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 Bioaccumulative
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

Other information

Classification procedure Flam. Liq. 4: H227 Combustible Liquid. (On basis of test data)
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
Carc. 2: H351 Suspected of causing cancer. (Calculation method)

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

(Calculation method)

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position none

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