



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** LATICRETE Blue 92 Anti-Fracture Membrane  
**Other means of identification** Not available.  
**Recommended use** Anti-Fracture Membrane  
**Recommended restrictions** None known.  
**Manufacturer / Importer / Supplier / Distributor information**  
**Company Name** LATICRETE International  
**Address** 1 Laticrete Park, N  
Bethany, CT 06524  
**Telephone** (203)-393-0010  
**Contact person** Steve Fine  
**Website** www.laticrete.com  
**Emergency phone number** Call CHEMTREC day or night  
USA/Canada - 1.800.424.9300  
Mexico - 1.800.681.9531  
Outside USA/Canada  
1.703.527.3887

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Specific target organ toxicity, repeated exposure Category 2 (Kidney)  
**OSHA defined hazards** Not classified.  
**Label elements**



**Signal word** Warning  
**Hazard statement** May cause damage to organs (Kidney) through prolonged or repeated exposure.  
**Precautionary statement**  
**Prevention** Do not breathe mist or vapor.  
**Response** Get medical advice/attention if you feel unwell.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Hazard(s) not otherwise classified (HNOC)** Not classified.  
**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3  
Hazardous to the aquatic environment, long-term hazard Category 3  
**Supplemental information**  
**Hazard statement** Harmful to aquatic life with long lasting effects.  
**Precautionary statement**  
**Prevention** Avoid release to the environment.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Ethylene glycol	107-21-1	1 - 2
Titanium Dioxide	13463-67-7	0.8 - 1.2
Zinc oxide	1314-13-2	0.3 - 0.6

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

**Skin contact** Wash skin with soap and water. Get medical attention if symptoms occur.

**Eye contact** Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if symptoms persist.

**Ingestion** Rinse mouth. Do not induce vomiting. Get medical attention if any discomfort continues.

**Most important symptoms/effects, acute and delayed** Symptoms include redness, itching and pain.

**Indication of immediate medical attention and special treatment needed** Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

**Suitable extinguishing media** Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

**Environmental precautions** Environmental manager must be informed of all major releases.

#### 7. Handling and storage

**Precautions for safe handling** Do not breathe mist or vapor. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Keep container tightly closed. Store in a cool and well-ventilated place.

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m <sup>3</sup>	Total dust.
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable fraction. Fume. Total dust.

## US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

## US NIOSH Pocket Guide to Chemical Hazards: Ceiling Limit Value and Time Period (if specified)

Components	Type	Value	Form
Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.

## US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Components	Type	Value	Form
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Dust.
		5 mg/m3	Fume.

## US NIOSH Pocket Guide to Chemical Hazards: Short Term Exposure Limit (STEL)

Components	Type	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Provide adequate ventilation and minimize the risk of inhalation of vapors.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Risk of contact: Wear protective gloves and goggles/face shield.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear appropriate chemical resistant clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>Appearance</b>	Blue liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Blue.
<b>Odor</b>	Styrene butadiene rubber.
<b>Odor threshold</b>	Not available.
<b>pH</b>	8 - 9
<b>Melting point/freezing point</b>	32 °F (0 °C)
<b>Initial boiling point and boiling range</b>	212 °F (100 °C)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.

Vapor density	Not available.
Relative density	1.18
Solubility(ies)	Soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

## 10. Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	Carbon dioxide (CO2). Carbon monoxide.

## 11. Toxicological information

### Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	In high concentrations, vapors may be irritating to the respiratory system.
Skin contact	May cause skin irritation.
Eye contact	May cause eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Symptoms include redness, itching and pain.

### Information on toxicological effects

**Acute toxicity** May cause discomfort if swallowed.

Components	Species	Test Results
Ethylene glycol (CAS 107-21-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	9530 mg/kg
<i>Oral</i>		
LD50	Rat	4700 mg/kg

**Skin corrosion/irritation** May cause skin irritation on prolonged or repeated contact.

**Serious eye damage/eye irritation** May cause eye irritation on direct contact.

**Respiratory sensitization** No data available.

**Skin sensitization** Not a skin sensitizer.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Inhalation of titanium dioxide dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium Dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

**Reproductive toxicity** No data available.

**Specific target organ toxicity - single exposure** No data available.

**Specific target organ toxicity - repeated exposure** May cause damage to organs (Kidney) through prolonged or repeated exposure by ingestion.

**Aspiration hazard** Not classified.

**Chronic effects** No data available.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
Ethylene glycol (CAS 107-21-1)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	8050 mg/l, 96 hours
Titanium Dioxide (CAS 13463-67-7)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog ( <i>Fundulus heteroclitus</i> )	> 1000 mg/l, 96 hours
Zinc oxide (CAS 1314-13-2)			
<b>Aquatic</b>			
Crustacea	LC50	Water flea ( <i>Daphnia magna</i> )	0.098 mg/l, 48 Hours

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available for this product.

**Partition coefficient n-octanol / water (log Kow)**

Ethylene glycol (CAS 107-21-1) -1.36

**Mobility in soil** The product is soluble in water.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as a hazardous material by DOT.

### IATA

Not regulated as a dangerous good.

### IMDG

Not regulated as a dangerous good.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This substance/mixture is not intended to be transported in bulk.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Ethylene glycol (CAS 107-21-1) LISTED  
Zinc oxide (CAS 1314-13-2) LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)**

<b>Chemical name</b>	<b>CAS number</b>	<b>% by wt.</b>
Ethylene glycol	107-21-1	1 - 2
Zinc oxide	1314-13-2	0.3 - 0.6

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Ethylene glycol (CAS 107-21-1)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

**US. Massachusetts RTK - Substance List**

Ethylene glycol (CAS 107-21-1)

Titanium Dioxide (CAS 13463-67-7)

Zinc oxide (CAS 1314-13-2)

**US. New Jersey Worker and Community Right-to-Know Act**

Ethylene glycol (CAS 107-21-1)

500 lbs

Zinc oxide (CAS 1314-13-2)

500 lbs

**US. Pennsylvania RTK - Hazardous Substances**

Ethylene glycol (CAS 107-21-1)

Titanium Dioxide (CAS 13463-67-7)

Zinc oxide (CAS 1314-13-2)

**US. Rhode Island RTK**

Ethylene glycol (CAS 107-21-1)

Zinc oxide (CAS 1314-13-2)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Titanium Dioxide (CAS 13463-67-7)

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

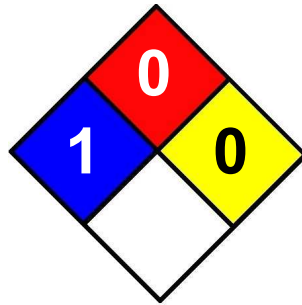
**16. Other information, including date of preparation or last revision**

**Issue date** 11-November-2013

**Revision date** -

**Version #** 01

**NFPA Ratings**



**References**

HSDB® - Hazardous Substances Data Bank  
Registry of Toxic Effects of Chemical Substances (RTECS)

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