



CEMENT &amp; CONCRETE PRODUCTS™

## F3: Epoxies

**SAFETY DATA SHEET**  
(Complies with OSHA 29 CFR 1910.1200)

### SECTION I: PRODUCT IDENTIFICATION

The QUIKRETE® Companies  
5 Concourse Parkway, Suite 1900  
Atlanta, GA 30328

Emergency Telephone Number  
**INFOTRAC (800) 535-5053**  
Information Telephone Number  
(800) 282-5828

SDS F3A  
Revision: Jan-19

**NOTE: TWO SDS ARE REQUIRED FOR THESE PRODUCTS**

<b>QUIKRETE® Product Name</b>	<b>Item #(s)</b>
ANCHORING EPOXY – FASTSET (PART A)	8620-30
ANCHORING EPOXY – HIGH STRENGTH (PART A)	8620-31
ANCHORING EPOXY – FASTSET™ FAST-SETTING (PART A)	8620-34
ANCHORING EPOXY – FASTSET™ HIGH STRENGTH (PART A)	8620-35

**Product Use:** Epoxies for anchoring objects to concrete.

See most current revision of this document at [www.QUIKRETE.com](http://www.QUIKRETE.com).

### SECTION II - HAZARD IDENTIFICATION

#### Hazard-determining components of labeling:

#### 2.1 Classification of the substance or mixture

Skin Corrosion– Category 1C

Eye Damage – Category 1

Skin Sensitization – Category 1

Carcinogenicity – Category 1A

Toxic to Reproduction (Fertility) – Category 1B

Toxic to Reproduction (Unborn Child) – Category 1B

Specific Target Organ Toxicity (Repeated Exposure) – Category 1 (lungs/respiratory tract)

Aquatic Hazard (Long Term) – Category 2

#### 2.2a Signal word Danger

#### 2.2b Hazard Statements

Causes severe skin burns and eye damage

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May cause an allergic skin reaction  
May cause cancer  
May damage fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure (lungs, respiratory tract)  
Toxic to aquatic life with long lasting effects.

**2.2c Pictograms****2.2d Precautionary statements**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid contact with the skin and eyes  
Avoid breathing fumes  
Avoid exposure during pregnancy.  
Wear protective gloves, eye protection and clothing.  
Do not eat, drink or smoke when using this product.

**If on skin (or hair):** Remove material immediately! Cured material can be removed only mechanically with damage to skin. Immediately wash all contaminated body and clothing thoroughly.  
**If in eyes:** Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and seek immediate medical attention.  
If inhaled: remove person to fresh air and keep comfortable for breathing.  
If swallowed: immediately call a poison control center or physician. Rinse mouth. Do NOT induce vomiting.  
If you experience a burn, rash or skin irritation: immediately seek medical attention.

**Immediately seek medical attention if symptoms are significant or persist.**

Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents/containers in accordance with all regulations.

**2.3 Additional Information****Carcinogenicity**

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this


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product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. Note: sanding of this product will create a possible dust hazard.

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. Note: sanding of this product will create a possible silica dust hazard

This product contains ethylene glycol which is not classified by IARC but is listed by the State of California for reproductive toxicity. California reports from an NTP report that ethylene glycol causes reproductive toxicity (developmental endpoint) at high oral doses.

**2.3a HNOC – Hazards not otherwise classified:** Not applicable

**2.3b Unknown Acute Toxicity:** None known

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**SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**


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<u>Hazardous Components</u>	<u>CAS No.</u>	<u>% by Weight</u>
Diglycidyl Ether of Bisphenol A	25085-99-8	30 - 60
Quartz Silica Sand (Crystalline Silica)	14808-60-7	40 - 70
Trimethylolpropane triglycidyl ether	30499-70-8	7 - 15
Ethylene Glycol	107-21-1	1-5
Titanium Dioxide	13463-67-7	1-5

\*The concentrations ranges are provided due to batch-to-batch variability.

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**SECTION IV – FIRST AID MEASURES**


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**4.1 Description of the first-aid measures**
**General information:**

**Inhalation:** Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.

**Eyes:** **Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and seek immediate medical attention.**

**Skin:** **Remove material immediately! Cured material can be removed only mechanically with damage to skin. Immediately wash all contaminated body and clothing thoroughly.**

Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.

**Ingestion:** Give plenty of water. DO NOT induce vomiting. Call a physician immediately.

**Other:** Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

**CEMENT & CONCRETE PRODUCTS™****4.2 Most important symptoms/effects, acute and delayed**

**Inhalation:** Prolonged or repeated inhalation of fumes or dust may cause lung damage or cancer

**Skin contact:** Causes severe burns. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** May damage fertility or the unborn child.

**4.3 Indication of immediate medical attention and special treatment needed:**

Treat symptomatically. Contact poison treatment specialist immediately if ingested or inhaled.

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**SECTION V - FIRE FIGHTING MEASURES**

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**5.1 Flammability of the Product:** Combustible

**5.2 Suitable extinguishing agents:** Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

**5.3 Special hazards arising from the substance or mixture:** This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer, or drain.

**5.3a Products of Combustion:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds, metal oxide/oxides.

**5.3b Explosion Hazards in Presence of Various Substances:** None known

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**SECTION VI – ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures:** Wear personal protective equipment (See section VIII). Keep unprotected persons away.

**6.2 Methods and material for containment and cleaning up:**

Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting. Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE**

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**7.1 Handling**

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.

**7.2 Storage**

**Requirements to be met by storerooms and receptacles:** Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature range in between 4 °C and 32 °C (40°F and 90° F).



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**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep out of the reach of children.

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## SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

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### 8.1 Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS No.	PEL (OSHA) mg/M <sup>3</sup>
Diglycidyl Ether of Bisphenol A	25085-99-8	None
Quartz Silica Sand (Crystalline Silica)	14808-60-7	10/(%SiO <sub>2</sub> )
Trimethylolpropane triglycidyl ether	30499-70-8	None
Ethylene Glycol	107-21-1	10
Titanium Dioxide	13463-67-7	15 (total dust)

### 8.2 Exposure Controls

Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. Avoid exposure during pregnancy. Persons with a history of skin sensitization problems should not be exposed to this product for inhalation or skin contact. Once sensitized to this product, a severe allergic reaction may occur when subsequently exposed to even very low levels.

### 8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

#### 8.3a Personal protective equipment

##### Protection of hands:

Wear gloves of adequate length to offer appropriate skin protection. Neoprene, nitrile rubber, or PVC gloves have been found to offer adequate protection for incidental contact.

##### Eye protection:

Wear approved eye protection properly fitted dust- or splash-proof chemical safety glasses.

##### Respiratory protection:

A S-Series half mask respirator with organic vapor cartridges (black) will reduce exposure, especially in poorly ventilated areas, when use is frequent, or when permissible exposure limits may be exceeded.



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## SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

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<b>Appearance:</b>	White Paste
<b>Evaporation Rate:</b>	Not applicable
<b>Odor:</b>	Slight Odor
<b>Solubility in Water:</b>	Not available
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	Not available
<b>Vapor Density (Air = 1):</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>VOC Content:</b>	See section 9 of part B for VOC content.
<b>pH:</b>	Not available
<b>Boiling Point:</b>	Not available

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## SECTION X – STABILITY AND REACTIVITY

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### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal storage conditions.

### 10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

### 10.4 Thermal decomposition / conditions to be avoided

No specific data.

### 10.5 Incompatible materials Oxidizing agents

**10.6 Hazardous Decomposition or By-products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## SECTION XI – TOXICOLOGICAL INFORMATION

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### 11. Toxicological Information (Part A)

**Acute Oral Toxicity:** Ethylene Glycol – LD<sub>50</sub> (Rat) 4700 mg/kg

**Skin Irritation:** Irritating to skin. The product has not been tested. The statement has been derived from the properties of the individual components.

**Eye Irritation:** Irritating to eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

**Respiratory Irritation:** Inhalation of vapors or mists may cause irritation to the respiratory system.



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**Sensitization:** May cause allergic skin reaction and irritation to the respiratory system. The product has not been tested. The statement has been derived from the properties of the individual components.

**Carcinogenicity Classification:**

**Quartz Silica Sand (Crystalline Silica)** - See Part A Section 2.

**IARC Group1:** Known human carcinogen based on human evidence.

**NTP (National Toxicology Program)** has classified Crystalline Silica as a known human carcinogen.

**Potential acute health effects**

**Eye Contact** Causes serious eye damage.

**Inhalation** None known

**Skin Contact** Causes severe burns. May cause an allergic skin reaction.

**Potential chronic health effects**

**General:** Causes damage to lungs/respiratory tract through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity:** May cause cancer. Risk of cancer depends on duration and level of exposure.

**Teratogenicity:** May damage the unborn child.

**Fertility Effects:** May damage fertility.

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**SECTION XII – ECOLOGICAL INFORMATION**

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**Toxicity**

Ingredient	Result	Species	Exposure
Titanium dioxide	Acute LC50 >1000000 µg/L Marine water	Fish - Fundulus heteroclitus	96 hours
Ethanediol	Acute LC50 6900000 µg/L Fresh water	Crustaceans - Ceriodaphnia dubia –Neonate	48 hours
	Acute LC50 41000000 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8050000 µg/L Fresh water	Fish - Pimephales promelas	96 hours

**Bioaccumulative potential**

Ingredient	LogPow	BCF	Potential
Ethanediol	-1.36	-	low

**Mobility:** Soil/water partition coefficient ( $K_{OC}$ ) – Not available.

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**SECTION XIII – DISPOSAL CONSIDERATIONS**

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**13.1 Waste Disposal Method**

Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Avoid dispersal of spilled material



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and runoff and contact with soil, waterways, drains and sewers. If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

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**SECTION XIV – TRANSPORT INFORMATION**

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	<b>DOT (U.S.)</b>	<b>TDG (Canada)</b>
<b>UN-Number</b>	Not Regulated	Not Regulated
<b>UN proper shipping name</b>	Not Regulated	Not Regulated
<b>Transport Hazard Class(es)</b>	Not Regulated	Not Regulated
<b>Packing Group (if applicable)</b>	Not Regulated	Not Regulated

**14.1 Environmental hazards:**

Not Available

**14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code**

Not available

**14.3 Special precautions for user**

Do not handle until all safety precautions have been read and understood.

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**SECTION XV – OTHER REGULATORY INFORMATION**

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**Federal Regulations:**

<b>TSCA</b>	Listed	
<b>CERCLA RQ</b>	<b>CAS #</b>	<b>Chemical Name</b>
5000 lbs	107-21-1	Ethylene Glycol

**SARA Title 311/312**

Skin Corrosion– Category 1C

Eye Damage – Category 1

Skin Sensitization – Category 1

Carcinogenicity – Category 1A

Toxic to Reproduction (Fertility) – Category 1B

Toxic to Reproduction (Unborn Child) – Category 1B

Specific Target Organ Toxicity (Repeated Exposure) – Category 1 (lungs/respiratory tract)

**Sara Title 313**

**Form R Reporting Requirements:** Ethylene Glycol (CAS 107-21-1)

**Supplier Notification:** Ethylene Glycol (CAS 107-21-1)

**State Regulations:**

<b>State RTK</b>	<b>CAS #</b>	<b>Chemical Name</b>
<b>NJ, MA, PA</b>	25085-99-8	Diglycidyl Ether of Bisphenol A

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**QUIKRETE****CEMENT & CONCRETE PRODUCTS™**107-21-1  
14808-60-7  
13463-67-7Ethylene Glycol  
Quartz Silica Sand (Crystalline Silica)  
Titanium Dioxide**State Right to Know Laws  
California Prop. 65 Components**

**WARNING:** This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer, and Ethylene Glycol which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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**SECTION XVI – OTHER INFORMATION**

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**Last Updated: January 3, 2019**

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by The QUIKRETE Companies, LLC

**End of SDS**



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## F3: Epoxies

**SAFETY DATA SHEET**  
(Complies with OSHA 29 CFR 1910.1200)

### SECTION I: PRODUCT IDENTIFICATION

The QUIKRETE® Companies  
5 Concourse Parkway, Suite 1900  
Atlanta, GA 30328

Emergency Telephone Number  
**INFOTRAC (800) 535-5053**  
Information Telephone Number  
(800) 282-5828

SDS F3B  
Revision: Jan-19

**NOTE: TWO SDS ARE REQUIRED FOR THESE PRODUCTS**

<b>QUIKRETE® Product Name</b>	<b>Item #(s)</b>
ANCHORING EPOXY – FASTSET (PART B)	8620-30
ANCHORING EPOXY – HIGH STRENGTH (PART B)	8620-31
ANCHORING EPOXY – FASTSET™ FAST-SETTING (PART B)	8620-34
ANCHORING EPOXY – FASTSET™ HIGH STRENGTH (PART B)	8620-35

**Product Use:** Epoxies for anchoring objects to concrete.

See most current revision of this document at [www.QUIKRETE.com](http://www.QUIKRETE.com).

### SECTION II - HAZARD IDENTIFICATION

#### **Hazard-determining components of labeling:**

#### **2.1 Classification of the substance or mixture**

Skin Corrosion– Category 1B

Eye Damage – Category 1

Skin Sensitization – Category 1

Carcinogenicity – Category 1A

Toxic to Reproduction (Fertility) – Category 1B

Toxic to Reproduction (Unborn Child) – Category 1B

Specific Target Organ Toxicity (Repeated Exposure) – Category 1 (lungs/respiratory tract)

Aquatic Hazard (Acute) – Category 1

Aquatic Hazard (Long Term) – Category 1

#### **2.2a Signal word** Danger

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1/7/2019

**QUIKRETE****CEMENT & CONCRETE PRODUCTS™****2.2b Hazard Statements**

Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause cancer

May damage fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure (lungs, respiratory tract)

Very toxic to aquatic life with long lasting effects.

**2.2c Pictograms****2.2d Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid contact with the skin and eyes

Avoid breathing fumes

Avoid exposure during pregnancy.

Wear protective gloves, eye protection and clothing.

Do not eat, drink or smoke when using this product.

**If on skin (or hair): Remove material immediately! Cured material can be removed only mechanically with damage to skin.** Immediately wash all contaminated body and clothing thoroughly.

**If in eyes: Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and seek medical immediate attention.**

If inhaled: remove person to fresh air and keep comfortable for breathing.

If swallowed: immediately call a poison control center or physician. Rinse mouth. Do NOT induce vomiting.

If you experience a burn, rash or skin irritation: immediately seek medical attention.

**Immediately seek medical attention if symptoms are significant or persist.**

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/containers in accordance with all regulations.



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## 2.3 Additional Information

### Carcinogenicity & Teratogenicity

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. Note: sanding of this product will create a possible dust hazard.

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. Note: sanding of this product will create a possible silica dust hazard

This product contains 2-(2-Aminoethylamino) ethanol which is not listed by the State of California for reproductive toxicity. The US National Institute of Health identifies this constituent as it may damage fertility or the unborn child.

**2.3a HNOC – Hazards not otherwise classified:** Not applicable

**2.3b Unknown Acute Toxicity:** None known

### SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>% by Weight*</u>
Quartz Silica Sand (Crystalline Silica)	14808-60-7	40 – 70
4-Nonylphenol, Branched	84852-15-3	10 – 30
2-Piperazin-1-Ylethylamine	104-31-8	10 – 30
2,4,6-tris(Dimethylaminomethyl) phenol	90-72-2	3 – 7
Benzyl alcohol	100-51-8	1 – 5
Diaminopolypropylene glycol	9046-10-0	1 – 5
Bis[(Dimethylamino)methyl]phenol	71074-89-0	1 – 5
2-(2-Aminoethylamino) ethanol	111-41-1	0.1 – 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

\*The concentrations ranges are provided due to batch-to-batch variability.



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**SECTION IV – FIRST AID MEASURES**

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**4.1 Description of the first-aid measures****General information:**

**Inhalation:** Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.

**Eyes:** Immediately rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do. Continue rinsing and seek immediate medical attention.

**Skin:** Remove material immediately! Cured material can be removed only mechanically with damage to skin. Immediately wash contaminated body and clothing thoroughly. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.

**Ingestion:** Give plenty of water. DO NOT induce vomiting. Call a physician immediately.

**Other:** Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

**4.2 Most important symptoms/effects, acute and delayed**

**Inhalation:** Causes damage to organs through prolonged or repeated exposure (lungs, respiratory tract)

**Skin contact:** Causes severe burns. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** May damage fertility or the unborn child.

**4.3 Indication of immediate medical attention and special treatment needed:**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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**SECTION V - FIRE FIGHTING MEASURES**

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**5.1 Flammability of the Product:** Combustible

**5.2 Suitable extinguishing agents:** Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

**5.3 Special hazards arising from the substance or mixture:** This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged into any waterway, sewer or drain.

**5.3a Products of Combustion:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides.

**5.3b Explosion Hazards in Presence of Various Substances:** None known

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**SECTION VI – ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures:** Wear personal protective equipment (See section VIII). Keep unprotected persons away.



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## 6.2 Methods and material for containment and cleaning up:

Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting. Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

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## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

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### 7.1 Handling

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.

### 7.2 Storage

**Requirements to be met by storerooms and receptacles:** Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature range in between 4 °C and 32 °C (40°F and 90° F).

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep out of the reach of children.

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## SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

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### 8.1 Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS No.	PEL (OSHA) mg/M <sup>3</sup>
Quartz Silica Sand (Crystalline Silica)	14808-60-7	10/(%SiO <sub>2</sub> )
Benzyl alcohol	100-51-8	10

### 8.2 Exposure Controls

Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. **Avoid exposure during pregnancy. Persons with a history of skin sensitization problems should not be exposed to this product for inhalation or skin contact. Once sensitized to this product, a severe allergic reaction may occur when subsequently exposed to even very low levels.**

### 8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.



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### 8.3a Personal protective equipment

#### Protection of hands:

Wear gloves of adequate length to offer appropriate skin protection. Neoprene, nitrile rubber, or PVC gloves have been found to offer adequate protection for incidental contact.

#### Eye protection:

Wear approved eye protection properly fitted dust- or splash-proof chemical safety glasses.

#### Respiratory Protection:

An S-Series half mask respirator with organic vapor cartridges (black) will reduce exposure, especially in poorly ventilated areas, when use is frequent, or when permissible exposure limits may be exceeded.

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### SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

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<b>Appearance:</b>	Black Paste
<b>Odor:</b>	Slight Odor
<b>Evaporation Rate:</b>	Not applicable
<b>Solubility in Water:</b>	Not available
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	Not available
<b>Vapor Density (Air = 1):</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>pH:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>VOC Content:</b>	VOC < 20 g/L per EPA Method 24; Meets VOC requirements in all locations.

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### SECTION X – STABILITY AND REACTIVITY

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#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal storage conditions.

#### 10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

#### 10.4 Thermal decomposition / conditions to be avoided

No specific data.

#### 10.5 Incompatible materials Oxidizing agents

**10.6 Hazardous Decomposition or By-products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION XI – TOXICOLOGICAL INFORMATION****11. Toxicological Information (Part B)****Acute Oral Toxicity:**

4-Nonylphenol, Branched	LD <sub>50</sub> Oral – Rat – 1300 mg/kg
2,4,6-tris(Dimethylaminomethyl) phenol:	LD <sub>50</sub> Dermal – Rat – 1280 mg/kg
	LD <sub>50</sub> Oral – Rat – 1200 mg/kg
Benzyl alcohol:	LD <sub>50</sub> Dermal – Rabbit – 2000 mg/kg
	LD <sub>50</sub> Oral – Rat – 1230 mg/kg
2-(2-Aminoethylamino)Ethanol	LD <sub>50</sub> Dermal – Rat – 2250 mg/kg
	LD <sub>50</sub> Oral – Rat – 3 g/kg

**Irritation/Corrosion:**

4-Nonylphenol, Branched	Eyes – Severe irritant – Rabbit – 100 mg
	Skin– Severe irritant – Rabbit – 500 mg (24 h)
2,4,6-tris(Dimethylaminomethyl) phenol:	Eyes – Severe irritant – Rabbit – 50 µg (24 h)
	Skin– Mild irritant – Rat – 0.025 ml
	Skin– Severe irritant – Rat – 0.25 ml
	Skin– Severe irritant – Rabbit – 2 mg (24 h)
2-Piperazin-1-Ylethamine	Eyes – Moderate irritant – Rabbit – 20 mg (24 h)
	Skin– Severe irritant – Rabbit – 5 mg (24 h)
2-(2-Aminoethylamino)Ethanol	Eyes – Severe irritant – Rabbit – 50 mg
	Skin– Mild irritant – Rabbit – 445 mg

**Respiratory Irritation:** Inhalation of vapors or mists may cause irritation to the respiratory system. The product has not been tested. The statement has been derived from the properties of the individual components.

**Sensitization:** May cause allergic skin reaction and irritation to the respiratory system. The product has not been tested. The statement has been derived from the properties of the individual components.

**Carcinogenicity Classification:**

**Quartz Silica Sand (Crystalline Silica)** - See Part A Section 2.

**IARC Group1:** Known human carcinogen based on human evidence.

**NTP (National Toxicology Program)** has classified Crystalline Silica as a known human carcinogen.

**Potential acute health effects**

<b>Eye Contact</b>	Causes serious eye damage.
<b>Inhalation</b>	None known
<b>Skin Contact</b>	Causes severe burns. May cause an allergic skin reaction.





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### Potential chronic health effects

**General:** Causes damage to lungs/respiratory tract through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity:** May cause cancer. Risk of cancer depends on duration and level of exposure.

**Teratogenicity:** May damage the unborn child.

**Fertility Effects:** May damage fertility.

## SECTION XII – ECOLOGICAL INFORMATION

### Toxicity

Product/ingredient name	Result	Species	Exposure
4-Nonylphenol, Branched	Acute EC50 0.03 mg/L Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 0.027 mg/L Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 137 µg/L Marine water	Crustaceans - Eohaustorius estuarius –Adult	48 hours
	Acute LC50 17 µg/L Marine water	Fish - Pleuronectes americanus - Larvae	96 hours
	Chronic EC10 0.012 mg/L Marine water	Algae - Skeletonema costatum	96 hours
	Chronic NOEC 5 µg/L Fresh water	Crustaceans - Gammarus fossarum - Adult	21 days
2-Piperazin-1-Ylethylamine	Chronic NOEC 7.4 µg/L Fresh water	Fish - Pimephales promelas - Embryo	33 days
	Acute LC50 2190000 µg/L Fresh water	Fish - Pimephales promelas	96 hours
Benzyl alcohol	Acute LC50 460000 µg/L Fresh water	Fish - Pimephales promelas – Juvenile (Fledgling, Hatchling, Weanling)	96 hours

### Bioaccumulative potential

Ingredient	LogPow	BCF	Potential
4-Nonylphenol, Branched	5.4	740	high
2-Piperazin-1-Ylethylamine	-1.48	-	low
2,4,6-tris(Dimethylaminomethyl) phenol	0.219	-	low
Benzyl alcohol	0.87	-	low
Poly[oxy(Methyl-1,2-Ethanediy)], α-(2-Aminomethylethyl)-ω-(2-Aminomethylethoxy)-	1.34	-	low
2-(2-Aminoethylamino)Ethanol	-1.46	<0.2	low

**Persistence and degradability:** Not available.

**Mobility:** Not available.

**Other adverse effects :** No known significant effects or critical hazards.

## SECTION XIII – DISPOSAL CONSIDERATIONS

### 13.1 Waste Disposal Method

Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

## SECTION XIV – TRANSPORT INFORMATION

### DOT Classification

SDS F3B

QUIKRETE Companies, LLC

1/7/2019



**CEMENT & CONCRETE PRODUCTS™**

<b>UN-Number</b>	UN2735
<b>UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (2-Piperazin-1-Ylethamine,4-Nonylphenol,Branched)
<b>Transport Hazard Class(es)</b>	8
<b>Packing Group (if applicable)</b>	III

**14.1 Environmental hazards:**  
Not Available

**14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code**  
Not available

**14.3 Special precautions for user**  
Do not handle until all safety precautions have been read and understood.

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**SECTION XV – OTHER REGULATORY INFORMATION**

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**Federal Regulations:**

**TSCA**

<b>5(a)2:</b>	4-Nonylphenol, Branched
<b>8(a) PAIR:</b>	4-Nonylphenol, Branched
<b>8(b):</b>	All components are listed or exempt.
<b>12(b) one Time Export:</b>	4-Nonylphenol, Branched

**SARA Title 311/312**

Skin Corrosion– Category 1B  
 Eye Damage – Category 1  
 Skin Sensitization – Category 1  
 Carcinogenicity – Category 1A  
 Toxic to Reproduction (Fertility) – Category 1B  
 Toxic to Reproduction (Unborn Child) – Category 1B  
 Specific Target Organ Toxicity (Repeated Exposure) – Category 1 (lungs/respiratory tract)

**Sara Title 313**

**Form R Reporting Requirements:** 4-Nonylphenol, Branched (CAS 84852-15-3)  
**Supplier Notification:** 4-Nonylphenol, Branched (CAS 84852-15-3)

**State Regulations:**

**State RTK**  
**NJ, MA, PA**

**Chemical Name**  
 2-Piperazin-1-Ylethamine  
 Quartz Silica Sand (Crystalline Silica)  
 Benzyl alcohol

**QUIKRETE****CEMENT & CONCRETE PRODUCTS™****State Right to Know Laws****California Prop. 65 Components**

**WARNING:** This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

This product contains 2-(2-Aminoethylamino) ethanol which is not listed by the State of California for reproductive toxicity. The US National Institute of Health identifies this constituent as it may damage fertility or the unborn child.

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**SECTION XVI – OTHER INFORMATION**

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**Last Updated: January 7, 2019**

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by

The QUIKRETE Companies, LLC

**End of SDS**