L5: Concrete Cleaners

SAFETY DATA SHEET
(Complies with OSHA 29 CFR 1910.1200)

SECTION I: PRODUCT IDENTIFICATION

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Road, Suite 1300
Atlanta, GA 30329

Emergency Telephone Number
(770) 216-9580
Information Telephone Number
(770) 216-9580

SDS L5
Revision: Oct-16

QUIKRETE® Product Name	**Code #**
QUIKRETE® Concrete & Asphalt Cleaner	8601-01, 14

Product Use: Chemical cleaner for concrete and asphalt surfaces

SECTION II - HAZARD IDENTIFICATION

Hazard-Determining components of labeling
2.1 Classification of the substance or mixture
Corrosive to metals – Category 1
Skin corrosion – Category 1
Serious eye damage – Category 1
Acute Toxicity – Oral – Category 4

2.2a Signal Word DANGER

2.2b Hazard Statements
May be corrosive to metals
Causes serious eye damage
Causes severe burns and eye damage
May cause respiratory irritation
Harmful if swallowed

2.2c Pictograms

2.2d Precautionary statements
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Wear impervious gloves, such as nitrile. Wear eye protection, and protective clothing.
Do not breathe fumes.
Wash thoroughly after handling.
Use only in a well-ventilated area.
Do not eat, drink or smoke when using this product.

Absorb spillage to prevent material damage.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin or hair: immediately take off all contaminated clothing and wash before reuse. Rinse skin and hair with water.
If inhaled: Remove person to fresh air and keep comfortable for breathing.

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

Store in corrosive resistant or plastic container with a resistant inner liner.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents and containers in accordance with all regulations.

2.3 Additional Information
2.3a Hazards Not Otherwise Classified: None

2.3b Unknown acute toxicity: None
2.3c WHMIS Classification
E - Corrosive to skin
E - TDG class 8 - corrosive substance

2.3d Label Elements According to WHMIS
Hazard Symbols

Signal Word
DANGER!

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	%	CAS No.
Water	80-90	7732-18-5
Alcohol Ethoxylate	1-5	68439-46-3

The concentration ranges are provided due to batch-to-batch variability.
None of the constituents of this mixture are of unknown acute toxicity.

SECTION IV – First Aid Measures

4.1 Description of the first-aid measures
General information:
After inhalation: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.
After skin contact: Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.
After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed
Inhalation: Shortness of breath

Skin contact: Burning pain and severe corrosive skin damage.

Eye Contact: Causes serious and potentially permanent eye damage. Symptoms include stinging, tearing, redness, swelling and blurred vision.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed:
Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION V - FIRE FIGHTING MEASURES

5.1 Flammability of the Product: The product itself does not burn. May decompose upon heating to produce corrosive and/or toxic fumes. Contact with metal may release flammable hydrogen gas.

5.2 Suitable extinguishing agents: Treat for surrounding material. Do not use a solid water stream as it may scatter and spread fire. Do not use halogenated extinguishing agents.
5.3 Special hazards arising from the substance or mixture: None
5.3a Products of Combustion: None
5.3b Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

SECTION VI – ACCIDENTAL RELEASE MEASURES

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:
Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

7.1 Handling
Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Wear appropriate PPE (See section 8).Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

7.2 Storage
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep out of the reach of children. Keep container tightly closed. Store in a corrosive resistant container with a resistant inner liner. Do not allow the material to freeze.

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

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

Hazardous Components	CAS No.	PEL (OSHA) mg/M^3	TLV (ACGIH) mg/M^3
None			

8.2 Exposure Controls
Use ventilation adequate to keep exposures below recommended exposure limits.

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 from splashes. Nitrile, Butyl and 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.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

General Information

Appearance	Form: Liquid Color: Blue Odor: Detergent
pH-value at 20°C (68 °F):	13 (10%)
Boiling point/Boiling range:	130 – 140 ^{o}C (266-284 ^{o}F) (50% solution)
Flash point:	Not applicable
Auto igniting:	Product is not self-igniting
Vapor pressure at 21°C (70°F)	23.76 mm Hg – approximately
Density at 25°C (77 °F):	1.1 to 1.2 g/cm^3

Solubility in / Miscibility with Water:	Completely miscible
VOC content:	4 g/L VOC

SECTION X – STABILITY AND REACTIVITY

10.1 Reactivity
Contact with metal may release flammable hydrogen gas
10.2 Chemical stability
Stable under normal storage conditions. Keep in dry storage.
10.3 Possibility of hazardous reaction
No dangerous reaction known under conditions of normal use.
10.4 Thermal decomposition / conditions to be avoided
Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Corrosive to aluminum, tin, zinc, copper and most alloys, including brass and bronze. Corrosive to steel at elevated temperatures, above 40 ^{o}C (104 ^{o}F).
10.5 Incompatible materials
Oxidizing agents, acids, phosphorous, aluminum, zinc, tin. Initiates or catalyzes violent polymerization of acetaldehyde, acrolein, or acrylonitrile.
10.6 Hazardous Decomposition or By-products
Contact with Al, Zn, or Sn and sodium tetrahydroborate liberates hydrogen gas.

SECTION XI – TOXICOLOGICAL INFORMATION

11.1 Exposure Routes: Skin contact, skin adsorption, eye contact, inhalation, or ingestion.

11.2 Symptoms related to physical/chemical/toxicological characteristics:

Inhalation: May cause respiratory tract irritation.

Skin contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage.

Ingestion: Harmful if swallowed. Causes digestive tract burns.

11.3 Delayed, immediate and chronic effects of short-term and long-term exposure

Short Term

Skin Corrosion/Irritation: Causes severe skin burns.
Serious Eye Damage/Irritation: Causes severe eye damage.
Respiratory Sensitization: Not applicable
Aspiration Hazard: Not applicable

Long Term

Carcinogenicity: Not applicable
Germ Cell Mutagenicity: Not applicable
Reproductive Toxicity: Not applicable
Synergistic/Antagonistic Effects: Not applicable

SECTION XII – ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized

Aquatic Toxicity

Fish – LC50 (Lepomis macrochirus) – 99 mg/L, 48 hours
LC50 (Gambusia affinis affinis) – 125 mg/L, 96 hours

12.2 Persistence and degradability

Expected to degrade rapidly in air.

12.3 Bioaccumulative potential:

Not expected to bioaccumulate.

12.4 Mobility in soil

No further relevant information available.

12.5 Other Adverse Effects

No further relevant information available.

SECTION XIII – DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method
This product is classified as a D002 Corrosive hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

13.2 Other disposal considerations
Uncleaned packaging
Recommendation: Disposal must be made in accordance with local, state and federal regulations.
Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION XIV – TRANSPORT INFORMATION

DOT
UN number UN1824
UN proper shipping name Sodium hydroxide solution
Transport hazard class(es) 8
Subsidiary class(es) -
Packing group II
Special provisions B2, IB2, N34, T7, TP2
Packaging exceptions 154
Packaging non bulk 202
Packaging bulk 242

IATA
UN number UN1824
UN proper shipping name Sodium hydroxide solution
Transport hazard class(es) 8
Subsidiary class(es) -
Packaging group II
Environmental hazards No
Labels required 8
ERG Code 8L

IMDG
UN number UN1824
UN proper shipping name SODIUM HYDROXIDE SOLUTION
Transport hazard class(es) 8
Subsidiary class(es) -
Packaging group II

Marine pollutant No
Environmental hazards
Labels required 8
EmS F-A, S-B

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.

SECTION XV – OTHER REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

Canada
WHMIS Classification: Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

15.2 US Federal 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)
Sodium hydroxide (CAS 1310-73-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - Yes

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting) Not regulated.

15.3 State Right to Know Laws

California Prop. 65 Components

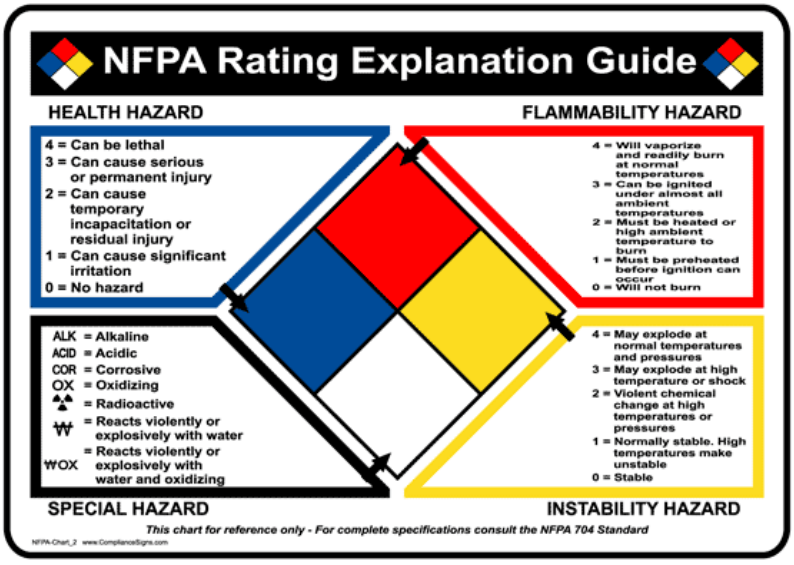
WARNING: This product does not contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

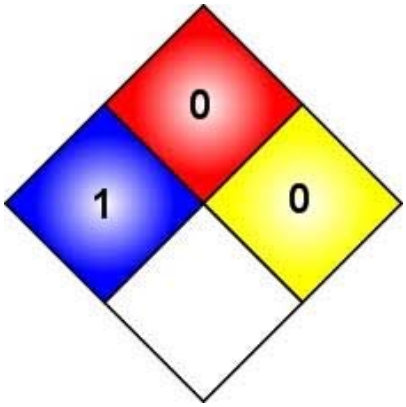
15.4 Global Inventories

DSL All components of this product are on the Canadian DSL list.

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

15.5 NFPA Ratings





SECTION XVI – OTHER INFORMATION

Last Updated: October 5, 2016

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
Phone (800) 282-5828
www.QUIKRETE.com

End of SDS