



# L1: Acid Based Products

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

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### SECTION I: PRODUCT IDENTIFICATION

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The QUIKRETE® Companies  
One Securities Centre  
3490 Piedmont Road, Suite 1300  
Atlanta, GA 30305

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

SDS L1  
Revision: May-15

<u>QUIKRETE® Product Name</u>	<u>Code #</u>
QUIKRETE® Concrete Etching Stain	7215-25, -26, -27, -28, -29

**Product Use:** Chemical stains for concrete and masonry

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### SECTION II - HAZARD IDENTIFICATION

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**Hazard-determining components of labeling:** Hydrochloric Acid

#### 2.1 Classification of the substance or mixture

Corrosive to Metals – Category 1  
Acute Toxicity – Oral - Category 4  
Skin Corrosion – Category 1A  
Specific Target Organ Toxicity – Category 3

#### 2.2a Signal word DANGER!

#### 2.2b Hazard Statements

Corrosive to metals, especially aluminum, particularly foil  
Causes severe skin burns and serious 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.  
Wear protective gloves, eye protection, and protective clothing.  
Do not eat, drink or smoke when using this product.  
Wash thoroughly after handling.  
Use only in a well ventilated area  
Do not breathe fumes.

If swallowed: Rinse mouth. Do NOT induce vomiting. Serious burns may result.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately seek medical advice or attention.  
If on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.  
If significant skin irritation or rash occurs: get medical advice or attention.

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

Keep in original container which has a specially modified plastic inner lining.  
If necessary to transfer from original packaging, store in a corrosion-resistant, non-metal container.  
Absorb spills to prevent material damage.  
Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents/containers in accordance with all regulations.

### 2.3 Additional Information

**2.3a HNOC – Hazards not otherwise classified:** None known

**2.3b Unknown Acute Toxicity:** None

#### 2.3C WHMIS Classification

D1A - Poisonous and infectious material - Immediate and serious effects - Very toxic  
E - Corrosive material

#### 2.3d Label Elements According To WHMIS

##### Hazard Symbols



##### WHMIS Health Effects Criteria Met by this Chemical:

D1A - Acute lethality - very toxic - immediate  
E - Corrosive to skin  
E - TDG Class 8 - corrosive substance



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### SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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<u>Hazardous Components</u>	<u>CAS No.</u>	<u>%</u>
Water	7732-18-5	40-70
Hydrochloric Acid	7647-01-0	20-40

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

May contain one or more of the following metal ions:  $\text{Cu}^{+2}$ ,  $\text{Fe}^{+3}$ ,  $\text{Fe}^{+2}$ ,  $\text{Cr}^{+3}$ ,  $\text{CrO}_4^{+2}$   
7758-99-0  
7758-95-3  
7705-08-0  
10588-01-9  
10025-73-7

Etching Stains may contain Cr (VI)

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### SECTION IV – First Aid Measures

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#### 4.1 Description of the first-aid measures

##### General information:

**After inhalation:** Remove person to fresh air and keep comfortable for breathing.

**After skin contact:** Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.

**After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Flush under eyelids to clear any trapped debris. Continue rinsing.

**After swallowing:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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

**Inhalation:** May cause respiratory irritation

**Skin contact:** Causes severe skin burns

**Eye Contact:** Causes serious eye damage

**Ingestion:** Harmful if swallowed

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

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

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### SECTION V - FIRE FIGHTING MEASURES

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**5.1 Flammability of the Product:** Non-flammable.



**5.2 Suitable extinguishing agents:** Dry chemical, foam, Carbon dioxide. Do not use water jet as an extinguisher, as this will spread the fire.

**5.3 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

**5.3a Products of Combustion:** Hydrogen gas

**5.3b Explosion Hazards in Presence of Various Substances:** Reactions with aluminum, particularly foil, or other metals may generate flammable hydrogen gas.

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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. Ensure adequate ventilation.

**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.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, when possible. Absorb in vermiculite, dry sand or earth and place into containers. Deactivation materials include lime, limestone, sodium carbonate, sodium bicarbonate, and dilute sodium hydroxide. Use a non-reactive, plastic stirring device to assist the neutralization process. Neutralize the material in several gradual steps – do not flood with large quantities all at once. Deactivation may release heat, steam and fumes. Allow each neutralization step to complete before introducing additional deactivation material. Once neutralized, the product may be disposed of.

Small spills: Wipe up with absorbent material; clean surface thoroughly to remove residual contamination.

Never return spills in original containers for reuse. For waste disposal, see Section 13.

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## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

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### 7.1 Handling

**Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. Wear appropriate PPE (See section 8). Keep in original container which has a specially modified plastic inner lining. If necessary to transfer from original packaging, store in a corrosion-resistant, non-metal container. Dried residue is slightly acidic and care should be taken. Do not mix with bleach, cleaners or other chemicals; chemical reactions may occur and produce poisonous gas.

### 7.2 Storage

**Requirements to be met by storerooms and receptacles:** Store in a well-ventilated place. Keep away from heat, sparks and open flames.

**Information about storage in one common storage facility:** Store in containers specially designed for this product and strength.

**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:

Hydrochloric Acid (CAS 7647-01-0)

OSHA PEL 7 mg/m<sup>3</sup> Ceiling  
ACGIH 7 mg/m<sup>3</sup> TLV Ceiling  
NIOSH 7 mg/m<sup>3</sup> Ceiling  
OSHA IDLH 50 ppm  
Canada TLV 7 mg/m<sup>3</sup>

### 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. Footwear and clothing may absorb the acid stain and later damage 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 or splash-proof chemical safety glasses.

##### Respiratory protection:

When workers may be exposed to concentrations above the exposure limit, they must use appropriate certified respirators.

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## SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

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### General Information

#### Appearance

Form: Liquid  
Color: Various colors  
Odor: Pungent; acidic

#### pH-value at 20°C (68 °F):

< 1

#### Boiling point/Boiling range:

226°F / 108°C to 127°F / 53°C

#### Flash point:

None - Nonflammable

#### Auto igniting:

Product is not self-igniting.

#### Vapor pressure at 21°C (70°F)

170 mm Hg (227 hPa)

#### Density at 25°C (77 °F):

1.12 – 1.30 g/cm<sup>3</sup>

#### Solubility in / Miscibility with

#### Water:

Soluble



VOC content: 0

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## SECTION X – STABILITY AND REACTIVITY

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**10.1 Reactivity** The product is stable and non-reactive under normal conditions of use.

**10.2 Chemical stability** Material is stable under normal conditions.

**10.3 Possibility of hazardous reaction** Hazardous polymerization does not occur.

**10.4 Thermal decomposition / conditions to be avoided** Contact with metal may release flammable hydrogen gas. Contact with incompatible materials. Do not mix with other chemicals.

**10.5 Incompatible materials** Bases, amines, acid anhydrides, metals, organic compounds, sulfides, permanganates, Fluorine, metal acetylides, hexalithium disilicide, and bleach.

**10.6 Hazardous Decomposition or By-products** Hydrogen chloride gas.

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## SECTION XI – TOXICOLOGICAL INFORMATION

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

**11.2 Symptoms related to physical/chemical/toxicological characteristics:**

**Inhalation:** Vapors will irritate throat and respiratory system and cause coughing.

**Skin contact:** Causes severe skin burns.

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

**Ingestion:** Harmful if swallowed. Causes digestive tract burns. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possible the digestive tract.

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

Acute Inhalation – LC50 – Rat – 3124 mg/l, 1h

Acute Oral – LD50 – Rabbit – 900 mg/kg

### Short Term

**Skin Corrosion/Irritation:** Causes severe skin burns.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory Sensitization:** Not available.

**Skin Sensitization:** Not available.

**Specific Target Organ Toxicity-Single Exposure:** May cause respiratory irritation.

**Aspiration Hazard:** Not available

### Long Term

**Carcinogenicity:** Not considered carcinogenic by IARC, ACGIH, NTP or OSHA



Germ Cell Mutagenicity: Not available

Reproductive Toxicity: Not available

Specific Target Organ Toxicity- Repeated Exposure: May cause respiratory irritation.

Synergistic/Antagonistic Effects: Not available.

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## SECTION XII – ECOLOGICAL INFORMATION

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### 12.1 Ecotoxicity

Because of the low pH of this product, it would be expected to cause long-term adverse effects to the aquatic environment. 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 – LC50 – Gambusia affinis – 282 mg/l, 96h

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential:

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Other Adverse Effects

No further relevant information available.

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## SECTION XIII – DISPOSAL CONSIDERATIONS

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**13.1 Waste Disposal Method** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Product must not be disposed of with household garbage. Do not contaminate ponds, waterways or ditches with chemical or used container.

### 13.2 Other disposal considerations

#### Uncleaned packaging

**Recommendation:** Fully empty containers can be disposed of as waste. If there is a chance for incidental exposure of individuals to trace liquid in the empty containers, first rinse the containers by filling with water and then emptying into the drain.

**Recommended cleansing agent:** Water, possibly with detergent.

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## SECTION XIV – TRANSPORT INFORMATION

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### UN-Number

DOT, ADN ADR, IMDG, IATA

1789

UN proper shipping name

Hydrochloric Acid



Transport hazard class(es)  
ADR, IMDG, IATA



Class 8 Corrosive substances  
Label 8

Packing group  
DOT, ADR, IMDG, IATA Packing Group II

Environmental hazards:

Marine pollutant: No  
Special precautions for user: Warning: Corrosive substances  
Danger code (Kemler): 80  
EMS Number: F-A,S-B  
Segregation groups: Acids  
Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code Not applicable.

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**SECTION XV – OTHER REGULATORY INFORMATION**

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**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**

**SARA 302/311/312/313 Components**

	CAS-No.	Revision Date
Hydrochloric acid	7647-01-0	24 April 1993
Chromium Compounds	7440-47-3	19 December 2008

**CERCLA: LISTED.**

**Emergency Planning and Community Right to Know Act (SARA Title III):**

- Immediate Hazard – Yes
- Delayed Hazard – Yes
- Fire Hazard – No
- Pressure Hazard – No





Reactivity Hazard – Yes

Extremely hazardous substance: Hydrochloric Acid (CAS 7647-01-0)

Reportable Quantity: 5000

Threshold Planning Quantity: 500 lbs

### 15.3 State Right to Know Laws

#### California Prop. 65 Components

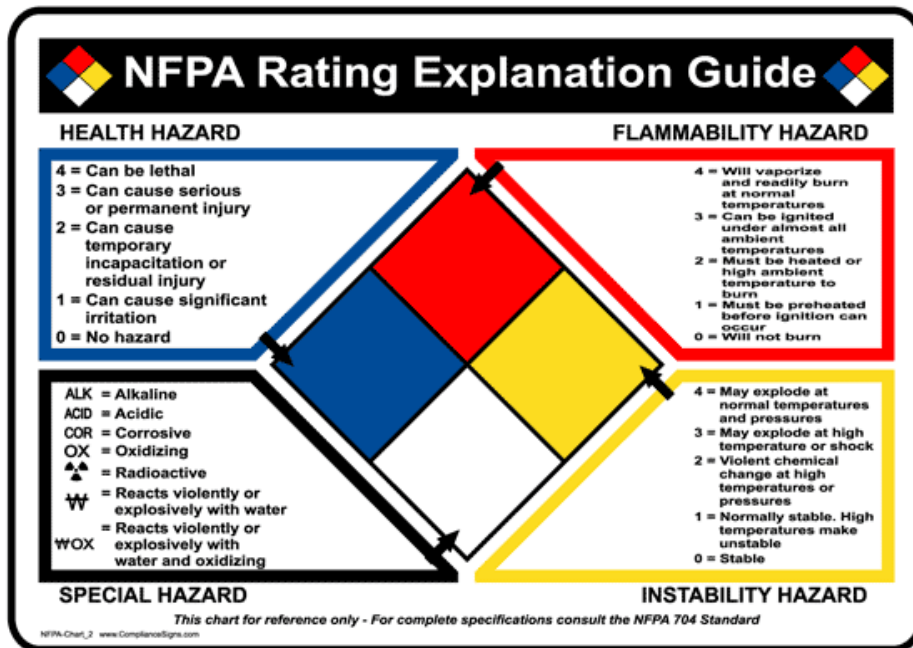
**WARNING:** This product contains chemicals known to State of California to cause cancer and birth defects or other reproductive harm. Some colors may contain Chromium (VI).

### 15.4 Global Inventories

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

TSCA No.: All constituents are listed in the TSCA inventory.

### 15.5 NFPA Ratings



## SECTION XVI – OTHER INFORMATION

Last Updated: May 20, 2015

**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.

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**End of SDS**