# LATICRETE

# SAFETY DATA SHEET

## 1. Identification

Product identifier Restore™ Acidic Cleaner

Other means of identification None.

Recommended use Acidic cleaner for natural stone & tile surfaces

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name

LATICRETE International

Address

1 Laticrete Park, N

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 Acute toxicity, oral Category 4

Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Causes severe skin burns and eye damage.

**Precautionary statement** 

**Prevention** Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face

protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response**If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. 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 call a poison center/doctor.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

# 3. Composition/information on ingredients

## **Mixtures**

| Chemical name        | e CAS number |       |
|----------------------|--------------|-------|
| Orthophosphoric acid | 7664-38-2    | 10-20 |
| Glycolic acid        | 79-14-1      | 1-5   |

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**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

Take off immediately all contaminated clothing. Chemical burns must be treated by a physician.

Wash contaminated clothing before reuse. Get medical attention immediately.

Eve contact

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs. Get medical attention if any discomfort continues.

Most important symptoms/effects, acute and

delayed

**General information** 

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

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

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

General fire hazards

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Fire may produce irritating, corrosive and/or toxic gases.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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.

**Environmental precautions** 

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS. Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. 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. Store away from incompatible materials (See Section 10).

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## 8. Exposure controls/personal protection

## Occupational exposure limits

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

| Components                | Туре | Value    |  |
|---------------------------|------|----------|--|
| Orthophosphoric acid (CAS | PEL  | 1 mg/m3  |  |
| 7664-38-2)                |      | <u>-</u> |  |

#### **US. ACGIH Threshold Limit Values**

| Components                           | Туре | Value   |  |
|--------------------------------------|------|---------|--|
| Orthophosphoric acid (CAS 7664-38-2) | STEL | 3 mg/m3 |  |
| ,                                    | TWA  | 1 mg/m3 |  |

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                           | Туре | Value   |  |
|--------------------------------------|------|---------|--|
| Orthophosphoric acid (CAS 7664-38-2) | STEL | 3 mg/m3 |  |
| . 66 . 66 _/                         | TWA  | 1 mg/m3 |  |

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

## Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face-shield. Wear a full-face respirator, if

needed.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene** 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

Appearance

Physical state Liquid.
Form Liquid.
Color Colorless.
Odor Mild.

Odor threshold Not available.

**pH** < 1

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Does not flash
Evaporation rate Not available.
Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

(%)

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Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Not available. Vapor pressure Vapor density Not available.

Relative density

Solubility(ies)

Solubility (water) Completely soluble.

Partition coefficient

Not available.

1.109

(n-octanol/water)

**Auto-ignition temperature** Not available.

> 392 °F (> 200 °C) **Decomposition temperature Viscosity** No data available.

Other information

0 % VOC (Weight %)

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Reacts with most metals to form flammable hydrogen gas.

Conditions to avoid Heat, flames and sparks. Contact with metals. Metals.

Incompatible materials Strong bases. Strong oxidizing agents. Strong alkalis. Cyanides. Sulfides. Metals.

Hazardous decomposition

products

Phosphine. Oxides of phosphorous.

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Causes severe respiratory tract irritation.

Skin contact Causes severe skin burns. Causes serious eye damage. Eye contact

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye

damage including blindness could result.

Information on toxicological effects

Harmful if swallowed. **Acute toxicity** 

Species **Test Results** Components

Orthophosphoric acid (CAS 7664-38-2)

Acute Dermal

Rabbit LD50 2740 mg/kg

Oral LD50

Rat 1530 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization No data available. Skin sensitization Not a skin sensitizer.

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

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

Specific target organ toxicity -

single exposure

No data available.

No data available.

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Specific target organ toxicity -

No data available.

repeated exposure
Aspiration hazard

Not classified.

Chronic effects

Prolonged or repeated contact may dry skin and cause dermatitis. Can cause kidney damage.

## 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Orthophosphoric acid (CAS 7664-38-2)

Aquatic

Fish LC50

Mosquitofish (Gambusia)

138 mg/l, 96 h

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)

Glycolic acid (CAS 79-14-1) -1.11

Mobility in soil

Other adverse effects

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic

organisms.

Not available.

## 13. Disposal considerations

**Disposal instructions** 

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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

UN number UN1760

**UN** proper shipping name

Transport hazard class(es)

Corrosive liquids, n.o.s. (Orthophosphoric acid, Glycolic acid)

Class 8
Subsidiary risk Label(s) 8
Packing group ||
Environmental hazards

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Marine pollutant No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions B2, IB2, T11, TP2, TP27

Packaging exceptions 154
Packaging non bulk 202
Packaging bulk 242

**IATA** 

UN number UN1760

Restore™ Acidic Cleaner SDS US

UN proper shipping name Corrosive liquid, n.o.s. (Orthophosphoric acid, Glycolic acid)

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group II
Environmental hazards No
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (Orthophosphoric acid, Glycolic acid)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group || Environmental hazards

Marine pollutant No F-A. S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

General information IATA classification is not relevant as the material is not transported by air.

## 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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Orthophosphoric acid (CAS 7664-38-2) LISTED

Not available.

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

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**US state regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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## **US. Massachusetts RTK - Substance List**

Orthophosphoric acid (CAS 7664-38-2)

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

Orthophosphoric acid (CAS 7664-38-2)

## US. Pennsylvania Worker and Community Right-to-Know Law

Orthophosphoric acid (CAS 7664-38-2)

## **US. Rhode Island RTK**

Orthophosphoric acid (CAS 7664-38-2)

#### **US. California Proposition 65**

Not Listed.

#### International Inventories

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| 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)               | Yes                    |
| 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

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

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

Issue date 18-December-2014

Revision date - 01

NFPA ratings



#### List of abbreviations

References HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

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cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or

warranty express or implied.

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Yes

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).