



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** STONETECH® Restore™ Acidic Cleaner  
**Other means of identification** None.  
**Recommended use of the chemical and restrictions on use**  
**Recommended use** Acidic cleaner for natural stone & tile surfaces  
**Restrictions on use** Not available.

### Details of manufacturer or importer

**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

### Supplier

**Company name** LATICRETE Australia  
**Address** P.O. Box 508  
 Virginia Business Mail Centre  
 29 Telford Street  
 VIRGINIA QLD 4014  
 Australia  
**Telephone** (61) (7) 3865-1599  
**Website** www.laticrete.com  
**Emergency phone number** 1.703.527.3887

## 2. Hazard(s) identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
<b>Environmental hazards</b>	Not classified.	

### Label elements, including precautionary statements

#### Hazard symbol(s)



Corrosion Exclamation mark

**Signal word** Danger

**Hazard Statement(s)** Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

## Precautionary Statement(s)

### Prevention

Do not breathe mist or vapour. 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 victim to fresh air and keep at rest in a position 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 CENTRE/doctor.

### Storage

Store locked up.

### Disposal

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

### Other hazards which do not result in classification

None known.

### Supplemental information

None.

## 3. Composition/information on ingredients

### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Orthophosphoric acid	7664-38-2	10-20
Glycollic acid	79-14-1	1-5

### 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

### Description of necessary 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.

#### Eye contact

Immediately flush eyes 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.

### Personal protection for first-aid responders

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

### Symptoms caused by exposure

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

### Medical attention and special treatment

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.

## 5. Fire-fighting measures

### Extinguishing media

#### 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

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

### Special protective equipment and precautions for fire fighters

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

### Fire fighting equipment/instructions

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

### Hazchem Code

2X

### General fire hazards

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**For emergency responders** Use personal protection recommended in Section 8 of the SDS. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions** 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.

**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. Clean up in accordance with all applicable regulations.

### Other issues relating to spills and releases

## 7. Handling and storage

**Precautions for safe handling** Do not breathe mist or vapour. 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).

## 8. Exposure controls and personal protection

**Control parameters** Follow standard monitoring procedures.

### Occupational exposure limits

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

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

#### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

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

#### US. ACGIH Threshold Limit Values

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

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

#### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Orthophosphoric acid (CAS 7664-38-2)	TWA	2 mg/m3	Inhalable fraction.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	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.
<b>Individual protection measures, for example personal protective equipment (PPE)</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Face-shield. Wear a full-face respirator, if needed.
<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>Hygiene measures</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

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Colourless.

**Odour** Mild.

**Odour threshold** Not available.

**pH** < 1

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**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.

**Vapour pressure** Not available.

**Vapour density** Not available.

**Relative density** 1.109

### Solubility(ies)

**Solubility (water)** Completely soluble.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** > 200 °C (> 392 °F)

**Viscosity** No data available.

### Other physical and chemical parameters

**VOC** 0 %

## 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.

<b>Possibility of hazardous reactions</b>	Reacts with most metals to form flammable hydrogen gas.
<b>Conditions to avoid</b>	Heat, flames and sparks. Contact with metals. Metals.
<b>Incompatible materials</b>	Strong bases. Strong oxidising agents. Strong alkalis. Cyanides. Sulfides. Metals.
<b>Hazardous decomposition products</b>	Phosphine. Oxides of phosphorous.

## 11. Toxicological information

### Information on possible routes of exposure

<b>Inhalation</b>	Causes severe respiratory tract irritation.
<b>Skin contact</b>	Causes severe skin burns.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Harmful if swallowed.

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

**Acute toxicity** Harmful if swallowed.

Components	Species	Test results
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Orthophosphoric acid (CAS 7664-38-2)

#### Acute

##### Dermal

LD50	Rabbit	2740 mg/kg
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##### Oral

LD50	Rat	1530 mg/kg
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**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/irritation** Causes serious eye damage.

### Respiratory or skin sensitisation

**Respiratory sensitisation** No data available.

**Skin sensitisation** Not a skin sensitiser.

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

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

**Reproductive toxicity** No data available.

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

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

**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
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Orthophosphoric acid (CAS 7664-38-2)

#### Aquatic

Fish	LC50	Mosquitofish (Gambusia)	138 mg/l, 96 h
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**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)

Glycollic acid (CAS 79-14-1)	-1.11
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**Mobility in soil** Not available.

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

### 13. Disposal considerations

**Disposal methods** 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.

**Residual waste** 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

#### ADG

**UN number** 1760  
**UN proper shipping name** Corrosive liquid, n.o.s. (Orthophosphoric acid, Glycollic acid)  
**Transport hazard class(es)**  
    **Class** 8  
    **Subsidiary risk** -  
**Packing group** II  
**Environmental hazards** No  
**Hazchem Code** 2X  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### RID

**UN number** 1760  
**UN proper shipping name** Corrosive liquid, n.o.s. (Orthophosphoric acid, Glycollic acid)  
**Transport hazard class(es)**  
    **Class** 8  
    **Subsidiary risk** -  
    **Label(s)** 8  
**Packing group** II  
**Environmental hazards** No  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### IATA

**UN number** 1760  
**UN proper shipping name** Corrosive liquid, n.o.s. (Orthophosphoric acid, Glycollic 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** 1760  
**UN proper shipping name** CORROSIVE LIQUID, N.O.S. (Orthophosphoric acid, Glycollic acid)  
**Transport hazard class(es)**  
    **Class** 8  
    **Subsidiary risk** -  
**Packing group** II  
**Environmental hazards**  
    **Marine pollutant** No  
**EmS** 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** Not available.

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

## 15. Regulatory information

### Safety, health and environmental regulations

**National regulations** This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

#### Australia Medicines & Poisons Appendix E

Glycolic acid (CAS 79-14-1)  
Phosphoric acid (CAS 7664-38-2)

#### Australia Medicines & Poisons Appendix F

Glycolic acid (CAS 79-14-1)

#### Australia Medicines & Poisons Schedule 5

PHOSPHORIC ACID (EXCLUDING ITS SALTS AND DERIVATIVES) (H<sub>3</sub>PO<sub>4</sub>) (CAS 7664-38-2)

#### Australia Medicines & Poisons Schedule 6

GLYCOLIC ACID (INCLUDING ITS SALTS AND ESTERS) (CAS 79-14-1)  
PHOSPHORIC ACID (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 7664-38-2)

#### Australia National Pollutant Inventory (NPI): Threshold quantity

Orthophosphoric acid (CAS 7664-38-2) 10 TONNES/YR Threshold Category: 1

#### High Volume Industrial Chemicals (HVIC)

Orthophosphoric acid (CAS 7664-38-2) 10000 - 99999 TONNES See the regulation for additional information.

#### Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

#### National Pollutant Inventory (NPI) substance reporting list

Not listed.

#### Prohibited Carcinogenic Substances

Not regulated.

#### Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

#### Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

#### Restricted Carcinogenic Substances

Not regulated.

### International regulations

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Kyoto protocol

Not applicable.

#### Montreal Protocol

Not applicable.

#### Basel Convention

Not applicable.

### 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

Country(s) or region	Inventory name	On inventory (yes/no)*
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	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

**Issue date** 10-October-2016

**Revision date** -

### Key abbreviations or acronyms used

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

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