



# COSHH DATA SHEET

## Pro-Scale

Total Pages: 4

Chem-Tel Emergency Response: +1+813.248.0585  
P 0115 900 5858  
F 0115 929 4468

COSHH Safety Data Sheet #: Pro-Scale  
Catalogue #: PRO-SCALE

### SECTION 1. PRODUCT NAME

Pro-Scale Lime Scale Remover

### SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS No.	EU/EC No.	% or Range	Risk Phrases
Water	7732-18-5		20-30	
Hydroxyacetic acid	5329-14-6	201-180-5	1-10	C Corrosive R22-34
Phosphoric acid	7664-38-2	015-011-00-6	60-80	C Corrosive R34
Other components:				

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 3. HAZARDS IDENTIFICATION

Route of entry: Inhalation: **yes** Skin: **yes** Eyes: **yes** Ingestion: **yes**

Health Hazards (acute and chronic): This material is corrosive to skin, eyes, and internal organs.

Signs and Symptoms of Exposure:

Eye Contact: Severe irritation and possible burns.

Skin Contact: Severe irritation and possible chemical burns. Symptoms may be delayed.

Inhalation: Mists may irritate respiratory system and cause difficulty breathing.

Ingestion: Solutions and mists are corrosive and toxic. May cause gastric distress, diarrhoea, and vomiting. May be fatal if swallowed.

Medical conditions generally aggravated by exposure: Contact may aggravate pre-existing medical conditions such as dermatitis or asthma.

### SECTION 4. FIRST AID

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately after administering first aid.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately after administering first aid.

**Ingestion:** Call the nearest poison control centre or the National Poison Control Hotline at 1-800-222-1222 (U.S.A.), NPIS +0844 892 0111 (UK), NPIC (01) 809 2566 (Ireland), or by dialling 112 (EU) for advice immediately. Do not induce vomiting, unless directed to do so by a physician. If victim is conscious and alert, give 2-3 glasses of water to drink. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously.

### SECTION 5. FIRE FIGHTING MEASURES

Not considered to be a fire hazard. Can react with certain metals, such as aluminium, to generate flammable hydrogen gas.

**Explosion:** May cause fire and explosions when in contact with incompatible materials.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

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## SECTION 6. SPILL/ACCIDENTAL RELEASE MEASURES

**Note:** No cleanup should be attempted until cleanup personnel are equipped with personnel protective gear to prevent contact with product. (Applies to undiluted product.) Remove contaminated clothing immediately. Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8.

**Spills:** Neutralize with sodium bicarbonate, soda ash, or lime. Pick up neutralized solution with a plastic pump or vacuum truck and store the neutralized solution in a leak-proof polyethylene container until product can be disposed of in a hazardous waste facility. Flush area twice with water to remove any remaining residues. Store wash solution in polyethylene containers for disposal. Do not use aluminium tools to collect absorbed material or aluminium containers to store collected wastes.

## SECTION 7. HANDLING AND STORAGE

Keep containers closed when not in use. Practice good housekeeping. Wash hands after handling. Avoid smoking when using this product. Wash clothing that has become contaminated. Keep out of reach of children. Read the disposal information before disposing of leaking or empty containers. Avoid breathing mists or spray. Avoid contact with eyes. Use only with adequate ventilation. Do not use metal measuring containers for handling this product. Make sure all safety equipment is available and protective clothing is in use before handling this product. Do not store with aluminium or magnesium containers. Do not mix with acids or organic materials. Keep this and all chemicals out of the reach of children. Wash exposed areas thoroughly after handling.

## SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Do not use this product without skin and eye protection.

Do not use this product until you have read all warning statements on bottle and consulted the Safety Data Sheet

Do not use this product unless a source of running water is available.

Wash exposed areas thoroughly after use.

**Airborne Exposure Limits:** OSHA Permissible Exposure Limit (PEL): 1 mg/m<sup>3</sup> (phosphoric acid mist in air)

**UK WEL Phosphoric Acid:** W.E.L. 2 mg/cu.m 15 min ref time, W.E.L. 1 mg/cu.m 8 hour ref time ref

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters or European Standard EN 149 respirators) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter with acid-gas cartridge filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities or a source of running water in the work area.

## SECTION 9. PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** >212° F

**Vapour pressure (mm Hg):** Same as water

**Vapour Density (Air = 1):** Same as water

**Solubility in water:** Water miscible

**Appearance and odour:** Purple liquid; mild acid odour.

**Specific gravity (H<sub>2</sub>O = 1):** 1.095

**Melting Point (Pour Point):** <32° F

**Evaporation Rate (Water = 1):** >1

## SECTION 10. STABILITY AND REACTIVITY DATA

**Stability:** Stable under ordinary conditions of use and storage.

**Compatibility: (Materials to avoid):** Metal containers, strong oxidizers, strong alkalis

**Hazardous Decomposition or By-products:** Hydrogen gas, SO<sub>2</sub>

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Do not mix this product with alkalis or any other material.

**Conditions to Avoid:** Heat, incompatibles.

## SECTION 11. TOXICOLOGY INFORMATION

RTECS# Not applicable CAS# 7664-38-2 (Phosphoric acid)

**ORAL (LD50):** Acute: 1530 mg/kg [Rat].

**DERMAL (LD50):** Acute: 2740 mg/kg [Rabbit].

**DUST (LC50):** Acute: >850 mg/m<sup>3</sup> 1 hours [Rat].

**CARCINOGENIC EFFECTS:** Not available.

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available.

**DEVELOPMENTAL TOXICITY:** Not available.

The substance may be toxic to blood, liver, skin, eyes, bone marrow. Repeated or prolonged exposure to the substance can produce target organ damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

No negative effects on the aquatic environment are known.

LC 50, 96 Hrs, FISH mg/l >500 (Phosphoric acid)

EC 50, 48 Hrs, DAPHNIA, mg/l >500(Phosphoric acid)

**BOD and COD:** Not available

**Biodegradation Products:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of Biodegradation Products:** The products of degradation are less toxic than the product itself.

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## SECTION 13. DISPOSAL CONSIDERATIONS

Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with National and local regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with federal, state and local requirements.

This product does not contain any prescribed substance under the Environmental Protection Act (Prescribed Processes and Substances) Regulations 1991 and is not classified as special waste under the Control of Substances (Special Waste) Regulations 1996, but is classified as controlled waste under the Environmental Protection Act 1990. For small quantities, dilute with water to at least 2.5% w/v (25 g/litre) and pour down a wastewater drain (foul sewer). Rinse out containers at least twice and recycle if facilities exist or dispose of as commercial waste. For larger quantities dispose of safely as commercial waste. European waste catalogue 20 01 29 Detergents containing dangerous substances

## SECTION 14. TRANSPORTATION INFORMATION

ADR: Class 8: Corrosive substances. ADR PACK GROUP III

US DOT: UN3264, Corrosive liquid, Acidic, Inorganic, N.O.S. (Contains phosphoric acid), 8, PGIII  
International (Water, I.M.O.)

Proper Shipping Name: Corrosive liquid, acidic, inorganic, N.O.S. (Contains phosphoric acid)

Hazard Class: 8

UN/NA: UN3264

Packing Group: III

## SECTION 15. REGULATORY INFORMATION

EC # 015-011-00-(Phosphoric acid)

Labelling

Risk phrases:

R34: Causes burns.

Safety phrases

S1/2: Keep locked up. Keep out of reach of children

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US EPA

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Centre of release quantities of Hazardous Substances is not required for this material.

Superfund Amendments and Reauthorisation Act of 1986 (SARA) Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355 (used for SARA 302, 304, 311, and 312) is not required for quantities below 250 pounds.

Superfund Amendments and Reauthorisation Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This material is not subject to reporting requirements.

Toxic Substances Control Act (TSCA) Status: The ingredients of this product are on the TSCA inventory.

State Right to Know

California Proposition 65:

Massachusetts: Hazardous substances and extraordinarily hazardous substances must be identified.

Pennsylvania: Hazardous substances must be identified.

California SCAQMD Rule 443.1 (VOC's)

Chemical Inventory Status

Ingredient	TSCA	EC	Japan	Australia	Korea	DSL	NDSL	Phil.
Phosphoric acid	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

Federal, State & International Regulations

Ingredient	SARA 302	SARA 313	TSCA	RCRA
Mixture	RQ No	TPQ No	Chemical No	No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes (Mixture / Liquid)

WHMIS: This Safety Data Sheet has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the Safety Data Sheet contains all of the information required by the CPR.

## SECTION 16. OTHER INFORMATION



NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1

R22 Harmful if swallowed.

R34 Causes burns.

R 35: Causes severe burns.

Label Hazard Warning: CORROSIVE Contains Phosphoric acid. Causes burns to skin and eyes.

Label Precautions:

Do not use this product without skin and eye protection.

Do not use this product until you have read all warning statements on bottle and consulted the Safety Data Sheet

Do not use this product unless a source of running water is available.

Keep container closed.

Wash thoroughly after use.

Label First Aid: If swallowed, DO NOT INDUCE VOMITING. Immediately drink 3-4 glasses of water followed by a large glass of citrus juice. Call a physician immediately.

Eyes: flush eyes with running water for at least 15 minutes while lifting lids to rinse the area behind the eyelids.

Skin: flush affected area with running water for at least 15 minutes or until skin no longer feels slick while removing contaminated clothing and shoes. Wash clothing before reuse.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing does not return to normal within a few minutes, get medical attention.

Product Use: Ice machine descaler

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## SECTION 17. ADDITIONAL INFORMATION:

This information is provided in accordance with the requirements of the UK Health and Safety at Work Act 1974, and specifically in order to assist users of the product to make their 'assessment of health risks' as required by the UK Control of Substances Hazardous to Health Regulation 1988 (COSHH assessments). Provision of this information does not preclude users from seeking advice from other sources as indicated in the COSHH guides. This information is intended to cover potential hazards at the place of work and does not detail medical uses, indications, contra-indications and precautions for the treatment of patients.

## SECTION 18. MANUFACTURER:

**Distributed by:**

DiversiTech UK Limited  
Glaisdale Drive East  
Nottingham  
NG8 4LY

**Phone:** 0115 900 5858

**EMERGENCY Phone No.:** Chem-Tel Emergency Response: +1 813 248 0585

**International Chemical Emergency Contact:** +1+813.248.0585 (Chem-Tel, Inc.)

## SECTION 19. REFERENCE NUMBER, DATE OF ISSUE:

COSHH Safety Data Sheet: Pro-Scale                      08/6/2009

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