

SDS PRO-SCALE-GB  
Issue 1, Version 3 Revised 30 August 2017

Total Pages: 6

# Pro-Scale

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

Pro-Scale

### 1.2 Relevant identified uses of the mixture and of the company

Lime Scale Remover

### 1.3 Details of the supplier of the safety data sheet

**Manufactured by (USA):** DiversiTech Corporation  
6650 Sugarloaf Parkway  
Duluth, GA 30097

**Manufactured for (UK):** Pump House  
Glaisdale Drive East  
Nottingham  
NG8 4LY  
United Kingdom  
**Tel:** +44 1159005858  
**Fax:** +44 1159294468  
**Email:** www.pumph.co.uk.com

### 1.4 Emergency telephone number

**Emergency tel:** 001+1813 248 0585, 24 Hours, 7 Emergency Days, Chem-Tel, Inc.

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

#### GHS Classification:

Corrosive to Metals Category 1  
Acute Toxicity Category 5  
Skin Irritation Category 1A  
Eye Irritation Category 1

### 2.2 Label Elements:



**Signal Word** Danger!

#### Hazard Statement(s)

H290	May be corrosive to metals.
H303	May be harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

#### Precautionary statement(s)

P102	Keep out of reach of children.
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe mist or spray.
P264	Wash hands thoroughly after handling.
P280	Wear rubber, nitrile or neoprene protective gloves and clothing, and safety goggles or face shield to protect eyes and face
P310	Immediately call a POISON CENTER or doctor if you feel unwell.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting,
P303+361+353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse SKIN with water/shower for a minimum of fifteen minutes.
P363	Wash contaminated clothing before reuse.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + 351 + 338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.

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## SECTION 2. HAZARDS IDENTIFICATION (cont.)

### Precautionary statement(s) (cont.)

P406 Store in corrosive resistant container with a resistant inner liner.  
P501 Dispose of contents and container in accordance with international and local regulations.

### 2.3 Other hazards

PBT: This substance is not identified as a PBT substance.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

INGREDIENT	CAS No.	EINECS No.	% Or Range	GHS Classification
Phosphoric acid	7664-38-2	231-633-2	90	H314: Causes severe skin burns and eye damage Category 1B
Hydroxyacetic acid	79-14-1	201-180-5	10	H302: Harmful if swallowed. Category 4 H314: Causes severe skin burns and eye damage Category 1B

### 3.2 Mixtures

No further information

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

**Skin contact** - Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation or burns develop or persists, get medical attention.

**Eye contact** - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Lift eyelids while flushing to ensure all areas of the eye and eyelid are flushed. Transfer to hospital for specialist examination.

**Ingestion** - Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Call the nearest poison centre for medical advice.

**Inhalation** - Allow the affected individual to rest in well-ventilated area. Seek medical attention if breathing distress continues.

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

Causes burns. Prolonged or repeated contact may cause defatting and drying of skin. If ingested, nausea and stomach pain may occur. There may be vomiting and diarrhea. May cause gastric distress. If inhaled, there may be irritation of the throat with a feeling of tightness in the chest. May experience difficulty breathing.

### 4.3 Indication of any immediate attention and special treatment needed

If the product makes contact with the eye and skin immediate treatment is required. If the product is ingested immediate medical attention is required.

## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Do not use water.

### 5.2 Special hazards arising from the substance or mixture

Can react with certain metals, such as aluminum, to generate flammable hydrogen gas. May cause fire and explosions when in contact with incompatible materials. Adding water to caustic solution generates large amounts of heat.

### 5.3 Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Remove contaminated clothing immediately. Cleanup personnel must be equipped with personal protective gear. Ensure adequate ventilation. Keep unnecessary and unprotected people away from area of spill.

### 6.2 Environmental precautions

Dispose of neutralized waste material in a hazardous waste facility.

### 6.3 Methods and material for containment and cleaning up

Neutralise with sodium bicarbonate, soda ash, or lime. Pick up neutralised solution with a plastic pump or vacuum truck and store the neutralised solution in a leak-proof polyethylene container until the 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 aluminum tools to collect absorbed material or aluminum containers to store collected wastes.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES (cont.)

### 6.4 Reference to other sections

Please refer to Section 8 for details on protective wear.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid direct contact with the substance. Wash hands after handling. Smoking is forbidden. Wash clothing after handling. Ensure there is sufficient ventilation of the area.

### 7.2 Condition for safe storage, including any incompatibilities

Keep container tightly closed. Do not use aluminum containers. Do not store with magnesium containers. Do not use aluminum tools to collect absorbed material or aluminum containers to store collected wastes. Do not use metal measuring containers for handling this product.

### 7.3 Specific end use(s)

No further details

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

INGREDIENT	CAS NO.	LT PPM	LTMG/M <sup>3</sup>	ST PPM	ST MG/M <sup>3</sup>
PHOSPHORIC ACID - 100%	7664-38-2		1 mg/m <sup>3</sup>		2 mg/m <sup>3</sup>

### 8.2 Exposure controls

Ensure there is sufficient ventilation of the area.

**Eye/face 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.

#### Skin protection:

**Hand protection:** Impermeable gloves (nitrile gloves)

**Other:** Wear impervious and acid-resistant protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate to prevent skin contact.

#### Respiratory protection:

A system of local and/or general exhaust is recommended to keep employee below exposure limit. A half-piece particulate respirator (EN 149) may be worn for up to ten times the exposure limit. Local exhaust ventilation is preferred. A full-face piece particulate respirator may be worn up to 50 times the exposure limit.

**Thermal hazards:** Not relevant

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	Purple liquid
Odor:	Astringent, slightly bunt odor
Odor Threshold:	Not available
pH:	2-3 @ 5%
Melting Point/freezing point:	<0 °C
Initial boiling point and boiling range:	>100 °C
Flash Point:	Not available
Evaporation Rate (Water = 1):	>1
Flammable Limits:	Not available
Vapor pressure:	Same as water
Vapor Density:	Same as water
Relative density:	1.095
Solubility:	Miscible in water
Partition Coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	<30Centipoise @ 20°C
Explosive properties:	No data available
Oxidising properties:	No data available

### 9.2 Other information

No further details

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## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Can react with certain metals, such as aluminum, to generate flammable hydrogen gas.

### 10.4 Conditions to avoid

Heat. Incompatibles.

### 10.5 Incompatible materials

Oxidising agents. Strong bases. Metal containers. Magnesium. Aluminum.

### 10.6 Hazardous decomposition products

Hydrogen gas. Sulphur Dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Potential health effects:

**11.1.1 Acute Toxicity:** No data available.

**11.1.2 Irritation:** Prolonged or repeated contact may cause defatting and drying of skin. Severe irritation of skin and eyes. If ingested, nausea and stomach pain may occur. There may be vomiting and diarrhea. May cause gastric distress. May be fatal if swallowed. If inhaled, there may be irritation of the throat with a feeling of tightness in the chest. May experience difficulty breathing.

**11.1.3 Corrosive:** Causes burns. In contact with skin, may cause chemical burns. Symptoms may be delayed by 12 hours. Causes burns to eyes.

**11.1.4 Sensitisation:** No data

**11.1.5 Repeated dose toxicity:** No data

**11.1.6 Carcinogenicity:** No data

**11.1.7 Mutagenicity:** No data

**11.1.8 Toxicity for reproduction:** No data

The substance may be toxic to blood, liver, skin, eyes, bone marrow. Repeated or prolonged exposure to the substance can produce target organs 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.

**11.1.9 Route of exposure:** Skin contact

**11.1.10 Symptoms related to the physical, chemical and toxicological characteristics:** Prolonged or repeated contact may cause defatting and drying of skin. If ingested, nausea and stomach pain may occur. There may be vomiting and diarrhea. May cause gastric distress. If inhaled, there may be irritation of the throat with a feeling of tightness in the chest. May experience difficulty breathing.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

Long term degradation products may arise. The products of degradation are less toxic than the product itself.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This product does not contain substances identified as PBT.

### 12.6 Other adverse effects

No further details

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## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Disposal operations** - Treat empty containers as hazardous. Transfer to a suitable container and arrange for collection by specialized disposal company.

**Disposal of packaging** - Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Dispose of according to national regulations.

Please follow all local, regional, national and international laws.

## SECTION 14. TRANSPORTATION INFORMATION

### 14.1 UN number

UN 3264

## SECTION 14. TRANSPORTATION INFORMATION (cont.)

### 14.2 UN proper shipping name

Corrosive Liquid, Acidic, Inorganic, N.O.S. (contains phosphoric acid)

### 14.3 Transport hazard class(es)

Class 8

### 14.4 Packing group

II

### 14.5 Environmental hazards

Not Environmentally Hazardous Substance or Marine Pollutant

### 14.6 Special precautions for user

See section 8

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable to packaged goods

## MODE-SPECIFIC INFORMATION:

ROAD/RAIL (ADR/RID/CDG)	Transport category 3 Tunnel restriction code E
SEA (IMDG)	Not Marine Pollutant IMDG Code segregation group1 – Acids EmS: F-A S-B
AIR (ICAO/IATA)	ERG Code 8L

## SECTION 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substances or mixture

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been conducted.

## SECTION 16. OTHER INFORMATION

### Other information

This safety data sheet is prepared in accordance with Regulation (EC) No 1272/2008 (CLP).

**Revision Summary:** All Sections: New GHS Format

### Abbreviations:

UN Model Regulations means the Model Regulations annexed to the most recently revised edition of the Recommendations on the Transport of Dangerous Goods published by the United Nations.

IMDG Code means the International Maritime Dangerous Goods code, as amended.

ADR means the European Agreement concerning the International Carriage of Dangerous Goods by Road, as amended.

RID means the Regulations concerning the International Carriage of Dangerous Goods by Rail, as amended.

ADN means the European Agreement concerning the International Transport of Dangerous Goods by Inland Waterways, as amended.

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### SECTION 16. OTHER INFORMATION (cont.)

#### Sources of key data:

UK Regulatory References: The Control of Substances Hazardous to Health Regulations 2002 (as amended 2004). European Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

Approved Code of Practice: Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. British

Workplace Exposure Limits EH40.

Classification and Labelling Guidance: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 2

Precautionary Statement and Pictograms: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 3

Guidance on the Preparation of Safety Data Sheets: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 4

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