



## SAFETY DATA SHEET

LIMESCALE REMOVER

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Revision No: 2

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product name:** LIMESCALE REMOVER

**Company name:** Greyland Ltd

Greg Street

South Reddish

Stockport

Cheshire

SK5 7BX

United Kingdom

Tel: +44 (0) 161 476 3607

Fax: +44 (0) 161 477 1870

Emergency tel: +44 (0) 161 476 3607

### 2. HAZARDS IDENTIFICATION

**Main hazards:** Irritating to eyes and skin. May cause sensitisation by skin contact.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** ACID THICKENER 1-5%

[C] R34; [Xn] R22; [Xi] R37; [Sens.] R43; [N] R50

- ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE <1%

CAS: 68391-01-5

[Xn] R22; [C] R34; [N] R50

- ORTHOPHOSPHORIC ACID 10-30%

EINECS: 231-633-2 CAS: 7664-38-2

[C] R34

### 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** Exposure may cause coughing or wheezing.

### 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**Exposure hazards:** In combustion emits toxic fumes.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**7. HANDLING AND STORAGE**

**Handling requirements:** Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Hazardous ingredients:** ORTHOPHOSPHORIC ACID...100%  
WEL (8 hr TWA): 1 mg/m<sup>3</sup> WEL (15 min STEL): 2 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Purple

**Odour:** Characteristic odour

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Soluble

**Viscosity:** Viscous

**Flash point°C:** >70

**pH:** <2

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:** ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

ORL RAT LD50 795 mg/kg

- ORTHOPHOSPHORIC ACID...100%

ORL RAT LD50 1530 mg/kg

**Chronic toxicity:** May cause sensitisation by skin contact.

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

**Hazardous ingredients:** ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

ALGAE 72H IC50 <1 mg/l

DAPHNIA 72H IC50 <1 mg/l

FISH 96H LC50 1-10 mg/l

**Mobility:** Readily absorbed into soil.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

**Other adverse effects:** Negligible ecotoxicity.

**13. DISPOSAL CONSIDERATIONS**

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

**UN no:** 1805

**ADR Class:** 8

**Packing group:** III

**Classification code:** C2

**Shipping name:** PHOSPHORIC ACID, SOLID

**Labelling:** 8

**Hazard ID no:** 80



**IMDG / IMO**

**UN no:** 1805 **Class:** 8  
**Packing group:** III **EmS:** F-A,S-B  
**Marine pollutant:** NO  
**Labelling:** 8

**IATA / ICAO**

**UN no:** 1805 **Class:** 8  
**Packing group:** III  
**Packing instructions:** 825(P&CA); 826(CAO)  
**Labelling:** 8

**15. REGULATORY INFORMATION**

**Hazard symbols:** Irritant.



**Risk phrases:** R36/38: Irritating to eyes and skin.  
R43: May cause sensitisation by skin contact.

**Safety phrases:** S24: Avoid contact with skin.  
S37: Wear suitable gloves.

**Note:** 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.

**16. OTHER INFORMATION**

**Risk phrases used in s.3:** R34: Causes burns.  
R22: Harmful if swallowed.  
R37: Irritating to respiratory system.  
R43: May cause sensitisation by skin contact.  
R50: Very toxic to aquatic organisms.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.