

# SAFETY DATA SHEET

DESCALER

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Issued: 29/06/24

Revision No: 8



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

**Product name:** DESCALER

**Use / description of product:** De-scaler and brickwork cleaner.

**Company name:** Uniconomy Ltd / Sapphire Cleaning & Maintenance Solutions

Unit 1 Carter Building

Red Marsh Inds Est

Thornton Cleveleys

Lancashire

FY5 4HP

Tel: 01253 854050

Fax: 01253 854049

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** HYDROCHLORIC ACID

EINECS: 231-595-7

[C] R34; [Xi] R37

## 3. HAZARDS IDENTIFICATION

**Main hazards:** May cause burns. Irritating to respiratory system.

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe burns may occur.

**Eye contact:** There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. There may be coughing and a sore throat. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

## 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

[cont...]

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**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** The product is non-combustible; appropriate extinguishing media for surrounding area should be used in fire situations. Use water spray to cool containers.

**Exposure hazards:** Toxic or irritating fumes may be released at elevated temperatures.

**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.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using sufficient appropriate absorbent material. Failure to contain release must be reported to the local authority.

**Clean-up procedures:** Transfer to a suitable container. Wash down the drain with large amounts of water. Large spillages should be contained with sand or earth and diluted to reduce fumes. Collect liquid by pumping into an emergency tank for safe disposal. Wash the spillage site with large amounts of water.

**7. HANDLING AND STORAGE**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Safety showers and eyewash facilities should be provided in areas where accidental exposure is possible.

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

**Suitable packaging:** Suitable materials are rubber lined steel, PVC, Polyethylene, Polypropylene, Glass, Stoneware, PTFE. Unsuitable materials: corrodes most metals including stainless steel; certain GRP fabrications depending on the type of resin.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Workplace exposure limits**

**WEL (15 min exposure limit):** 5ppm (7mg/m<sup>3</sup>)

**Hazardous ingredients:** HYDROCHLORIC ACID

WEL (15 min exposure limit): 7.6 mg/m<sup>3</sup>

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

**Respiratory protection:** If Workplace Exposure Limit(s) listed above are exceeded, respiratory protection may be required.



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**Hand protection:** In cases of prolonged contact wear protective gloves.

**Eye protection:** Wear safety glasses or goggles if risk of splashing. Ensure eye bath is to hand.

**Skin protection:** Skin Contact (other than hand contact) not likely. Remove contaminated clothing, wash with soap and water  
Ensure safety shower is to hand

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Colourless to pale yellow.

**Odour:** Pungent

**Solubility in water:** Soluble

**Boiling point/range°C:** 97

**Melting point/range°C:** -60

**Relative density:** 1.14

**10. STABILITY AND REACTIVITY**

**Stability:** Will lose strength over time.

**Materials to avoid:** Strong acids. Strong bases. Oxidising agents. Amines. Can liberate harmful gases from certain chemical salts e.g. cyanides, nitrites, sulphites, acetylides, carbides. Reacts with many metals to liberate highly flammable hydrogen gas.

**11. TOXICOLOGICAL INFORMATION**

**Routes of exposure:** Causes irritation or burns to eyes, skin, respiratory system and internal organs if ingested. Over exposure to vapour greatly above the Workplace Exposure Limit will result in coughing, wheezing, shortness of breath, chest pain and may cause lung damage. The irritant effects provide adequate warning and exposure to harmful levels is unlikely to occur.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Soluble in water.

**Other adverse effects:** Toxic to aquatic organisms. Lowering of pH below 5 will induce fatalities in aquatic life.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Contact Uniconomy Ltd to arrange disposal.Tel 01253 854050

**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:** 1789

**ADR Class:** 8

**Packing group:** II

**Classification code:** C1

**Shipping name:** HYDROCHLORIC ACID

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**Labelling:** 8**Hazard ID no:** 80**IMDG / IMO**

<b>UN no:</b> 1789	<b>Class:</b> 8
<b>Packing group:</b> II	<b>EmS:</b> F-A,S-B
<b>Marine pollutant:</b> NO	<b>Labelling:</b> 8

**IATA / ICAO**

<b>UN no:</b> 1789	<b>Class:</b> 8
<b>Packing group:</b> II	<b>Packing instructions:</b> 809(P&CA); 813(CAO)
<b>Labelling:</b> 8	

**15. REGULATORY INFORMATION****Hazard symbols:** Corrosive.

**Risk phrases:** R34: Causes burns.  
R37: Irritating to respiratory system.

**Safety phrases:** S2: Keep out of the reach of children.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**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**

**Other information:** Always use in accordance with manufacturer's directions.  
This product belongs to Hazard Groups C and S under the HSE COSHH Essentials guidelines (Publication HSG193).  
This safety data sheet is prepared in accordance with EC Directive 2001/58/EC.

**Risk phrases used in s.2:** R34: Causes burns.  
R37: Irritating to respiratory system.

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**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.