



SAFETY DATA SHEET
CITRIC AQUEOUS DESCALER 1

Page 1
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Revision No: 1

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

Product name: CITRIC AQUEOUS DESCALER 1
Company name: Unicorn Chemicals Ltd
Unicorn House
Mowbray Drive
Blackpool
Lancashire
FY3 7UN
Tel: 01253 396101
Fax: 01253 302895

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: CITRIC ACID BP 10-30%
EINECS: 201-069-1 CAS: 77-92-9
[Xi] R37/38; [Xi] R41
• ORTHOPHOSPHORIC ACID 1-10%
EINECS: 231-633-2 CAS: 7664-38-2
[C] R34

3. HAZARDS IDENTIFICATION

Main hazards: Irritating to respiratory system and skin. Risk of serious damage to eyes.

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. There may be severe pain. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. 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.
Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion: Wash out mouth with water. Seek medical attention.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Obtain medical help if there is difficulty breathing.

5. FIRE-FIGHTING MEASURES

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

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SAFETY DATA SHEET
CITRIC AQUEOUS DESCALER 1

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: Refer to section 8 of SDS for personal protection details. 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 sufficient appropriate absorbent material.

Clean-up procedures: Wash away spillage residues to foul sewer.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ORTHOPHOSPHORIC ACID...100%
WEL (8 hr exposure limit): 1 mg/m³ WEL (15 min exposure limit): 2 mg/m³

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.

Hand protection: Protective gloves.

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

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Mild

Solubility in water: Soluble

Relative density: 1.1

pH: 1-2

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials to avoid: Strong oxidising agents. Strong bases.

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

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: ORTHOPHOSPHORIC ACID...100%
ORL RAT LD50 1530 mg/kg

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

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Other adverse effects: Should not be discharged directly in concentrated form to water courses. Lowering of pH below 5 will induce fatalities in aquatic life.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Flush waste to foul sewer.

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: -

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

IMDG / IMO

UN no: -

IATA / ICAO

UN no: -

15. REGULATORY INFORMATION

Hazard symbols: Irritant.



Risk phrases: R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

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.

S39: Wear eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SAFETY DATA SHEET
CITRIC AQUEOUS DESCALER 1

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 safety data sheet is prepared in accordance with EC Directive 2001/58/EC.

Risk phrases used in s.2: R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

R34: Causes burns.

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.