

SAFETY DATA SHEET

ACID DESCALER

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Revision No: 4

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

Product name: ACID DESCALER

Product code: PN 189

Company name: Fluid Technology Generation Ltd

Drum House

Drum Industrial Estate

Birtley

Co Durham

DH2 1SR

UK

Tel: 0191 4111 777

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2. HAZARDS IDENTIFICATION

Main hazards: Causes burns.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: PHOSPHORIC ACID 85% 10-30%

EINECS: 231-633-2 CAS: 766-438-2

[C] R34

- DIPROPYLENE GLYCOL METHYL ETHER 1-10%

EINECS: 252-104-2 CAS: 34590-94-8

Contains: According to EC 648/2004

< 5% Nonionic Surfactant

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Irritation or pain may occur at the site of contact. Blistering may occur. Severe burns may occur.

Eye contact: There may be irritation and redness. 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.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. 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.

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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.

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: THIS PREPARATION ITSELF DOES NOT PRESENT A FIRE HAZARD. Product does not burn.

Exposure hazards: Corrosive. 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.

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

Clean-up procedures: Transfer to a suitable container. Wash down the drain 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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: PHOSPHORIC ACID 85%

WEL (8 hr TWA): TWA 1 mg/m³ WEL (15 min STEL): STEL 2mg/m³

- DIPROPYLENE GLYCOL METHYL ETHER

WEL (8 hr TWA): 100 mg/m³ WEL (15 min STEL): 909 mg/m³

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

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: Wear protective overalls, shoes/boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Astringent

Solubility in water: Miscible in all proportions

Relative density: 1.20 g/ml

pH: < 1.0

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: bleach

Materials to avoid: Alkali metals. Reacts with bleaches with the evolution of toxic chlorine gas.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: PHOSPHORIC ACID 85%

IHL RAT LD50 1530 mg/kg

ORL RBT LD50 2740 mg/kg

- DIPROPYLENE GLYCOL METHYL ETHER

ORL RAT LD50 5130 mg/kg

SKN RBT LD50 > 19000 mg/kg

12. ECOLOGICAL INFORMATION

Hazardous ingredients: PHOSPHORIC ACID 85%

FISH MOSQUITO FISH TLM 138 mg/l/24-96hr

- DIPROPYLENE GLYCOL METHYL ETHER

BACTERIA 72H IC50 4168 mg/l

DAPHNIA 48H EC50 1919 mg/l

FISH FATHEAD MINNOWS 96H LC50 > 10000 mg/l

Mobility: Soluble in water.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Do not mix with other chemicals. Dispose in accordance with local authority regulations.

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: C1

Shipping name: PHOSPHORIC ACID, LIQUID

Labelling: 8

Hazard ID no: 80

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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: 819(P&CA); 821(CAO)
Labelling: 8

15. REGULATORY INFORMATION

Hazard symbols: Corrosive.



Risk phrases: R34: Causes burns.

Safety phrases: 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).

Haz. ingredients (label): PHOSPHORIC ACID 85%

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.

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.