



SAFETY DATA SHEET
HIDROX

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

Product name: HIDROX
Company name: Advanced Engineering Ltd
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2. HAZARDS IDENTIFICATION

Main hazards: Causes burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ORTHOPHOSPHORIC ACID 50-70%
EINECS: 231-633-2 CAS: 7664-38-2
[C] R34
• NON IONIC SURFACTANT <1%
[N] R50/53

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.

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. There may be vomiting.

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 tightness of the chest.

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. 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. 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. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide.

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. 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. 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.

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/m³ WEL (15 min STEL): 2 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 glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Acid-resistant protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Red

Odour: Barely perceptible odour

Evaporation rate: Slow

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Oxidising: Non-oxidising (by EC criteria)**Solubility in water:** Miscible in all proportions**Viscosity:** Viscous**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions.**Conditions to avoid:** Heat.**Materials to avoid:** Strong bases. Amines. Finely powdered metals. Alkalis.**Haz. decomp. products:** In combustion emits toxic fumes.**11. TOXICOLOGICAL INFORMATION****Hazardous ingredients:** 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****Mobility:** Soluble in water.**Persistence and degradability:** Biodegradable.**Bioaccumulative potential:** No data available.**13. DISPOSAL CONSIDERATIONS****Disposal of packaging:** Clean with water. Dispose of as normal industrial waste.**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:** 1760**ADR Class:** 8**Packing group:** II**Classification code:** C9**Shipping name:** CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID)**Labelling:** 8**Hazard ID no:** 80**IMDG / IMO****UN no:** 1760**Class:** 8**Packing group:** II**EmS:** F-A,S-B

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Marine pollutant: .**Labelling:** 8**IATA / ICAO****UN no:** 1760**Class:** 8**Packing group:** II**Packing instructions:** 808(P&CA); 812(CAO)**Labelling:** 8**15. REGULATORY INFORMATION****Hazard symbols:** Corrosive.**Risk phrases:** R34: Causes burns.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S1/2: Keep locked up and out of the reach of children.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

Precautionary phrases: Contains inhibitor. May produce an allergic reaction.**Haz. ingredients (label):** ORTHOPHOSPHORIC ACID...100%; SURFACTANT**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.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.