

SAFETY DATA SHEET

HB30

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Issued: 11/07/2003

Revision No: 1

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

Product name: HB30

Use / description of product: Corrosive, organic acids.

Company name: Advanced Engineering Limited

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ACETIC ACID 1-10%

EINECS: 200-580-7 CAS: 64-19-7

[-] R10; [C] R35

- ORTHOPHOSPHORIC ACID 10-30%

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

[C] R34

3. HAZARDS IDENTIFICATION

Main hazards: Causes burns.

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. Severe burns may occur.

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

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

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. 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: If conscious, give half a litre of water to drink immediately. Do not induce vomiting. 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...]

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. 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. Alcohol or polymer foam.

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. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

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

Clean-up procedures: Wash down the drain with large amounts of water. 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. Do not handle in a confined space.

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

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ACETIC ACID...100%
TWA (8 hr exposure limit): 25 mg/m³ STEL (15 min exposure limit): 37 mg/m³ (OES)

- ORTHOPHOSPHORIC ACID...100%
TWA (8 hr exposure limit): 1 mg/m³ STEL (15 min exposure limit): 2 mg/m³ (OES)

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: Respiratory protective device with particle filter.

Hand protection: Protective gloves.

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

Skin protection: Acid-resistant protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Irritating odour which may affect the eyes and respiratory system

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible in all proportions

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials to avoid: Alkalis. Oxidising agents. Finely powdered metals.

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

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: ACETIC ACID...100%

IVN MUS LD50 525 mg/kg

ORL RAT LD50 3310 mg/kg

- ORTHOPHOSPHORIC ACID...100%

ORL RAT LD50 1530 mg/kg

Chronic toxicity: May cause sensitisation by inhalation. 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. Readily absorbed into soil. Vapour is heavier than air.

Persistence and degradability: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations: D10 Incineration on land.

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. (ACETIC ACID 80%; PHOSPHORIC ACID 81%; WATER)

Labelling: 8

Hazard ID no: 80

**IMDG / IMO**

UN no: 1760

Class: 8

Packing group: II

EmS: F-A,S-B

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.

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).

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.2: R10: Flammable.

R35: Causes severe burns.

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.