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

Product name: HYDREX, 2% CHLORHEXIDINE IN IPA 70%
Product code: HAS150P
Use / description of product: Alcoholic solution
Company name: Ecolab
Lotherton Way
Garforth
Leeds
West Yorkshire
LS25 2JY
Tel: 0113 232 0066
Fax: 0113 287 1317

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients:
- PROPAN-2-OL 55-90%
  EINECS: 200-661-7  CAS: 67-63-0
  [F] R11; [Xi] R36; [-] R67
- CHLORHEXIDINE GLUCONATE SOLUTION 5-15%
  [Xi] R41; [N] R50
Contains: Purified water

3. HAZARDS IDENTIFICATION

Main hazards: Highly flammable. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Unlikely to cause any symptoms under normal use.
Eye contact: There may be irritation and pain.
Ingestion: There may be confusion, aggressive behaviour, slurred speech and staggering walk. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting. Convulsions may occur.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash skin with plenty of water, in the case of accidental contact.
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. 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. In severe cases, or if recovery is not rapid or complete seek immediate medical attention.

[cont...]
5. FIRE-FIGHTING MEASURES

- **Extinguishing media:** Carbon dioxide. Alcohol resistant foam.
- **Exposure hazards:** Highly flammable. Vapour may travel considerable distance to source of ignition and flash back. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
- **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.
- **Clean-up procedures:** Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

- **Handling requirements:** Ensure there is sufficient ventilation of the area. Smoking is forbidden.
- **Storage conditions:** Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Ensure lighting and electrical equipment are not a source of ignition.
- **Suitable packaging:** Polyethylene. Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Hazardous ingredients:** PROPAN-2-OL
  - WEL (8 hr exposure limit): 999 mg/m³  WEL (15 min exposure limit): 1250 mg/m³
- **Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
- **Respiratory protection:** Respiratory protection not required.
- **Hand protection:** Protective gloves.
- **Eye protection:** Safety goggles.
- **Skin protection:** Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **State:** Liquid
- **Colour:** Colourless
- **Odour:** Alcoholic
- **Evaporation rate:** Moderate
- **Oxidising:** Non-oxidising (by EC criteria)
- **Solubility in water:** Soluble
- **Also soluble in:** Most organic solvents.
- **Boiling point/range°C:** 83
- **Melting point/range°C:** -90
- **Flammability limits %: lower:** 2
  - upper: 12
- **Flash point°C:** 20 - 21
- **Autoflammability°C:** 425

[cont...]

**SAFETY DATA SHEET**

HYDREX, 2% CHLORHEXIDINE IN IPA 70%

Issued: 18/10/2006
SAFETY DATA SHEET
HYDREX, 2% CHLORHEXIDINE IN IPA 70%

Issued: 18/10/2006

Vapour pressure: 41 mbar@20C
Relative density: 0.875

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Heat. Sources of ignition. Flames.
Materials to avoid: Oxidising agents.
Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:
- PROPAN-2-OL
  Oral RAT LD50 5045 mg/kg
- CHLORHEXIDINE GLUCONATE SOLUTION
  ORL RAT LD50 > 2000 mg/kg
  SKN RBT SLIGHTLY IRRITATING

12. ECOLOGICAL INFORMATION

Hazardous ingredients:
- CHLORHEXIDINE GLUCONATE SOLUTION
- ALGAE SCENEDESMUS SUBSPICA 72H IC50 0.011 MG/L
- BACTERIA ACTIVATED SLUDGE OECD209 3 mg/l
- DAPHNIA MAGNA DEV, DIN38412, T.9 0.05 - 0.1 mg/l

Mobility: Soluble in water.
Persistence and degradability: Biodegradable.
Bioaccumulative potential: No bioaccumulation potential.
Other adverse effects: Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Transfer to a waste solvent drum for collection by specialist disposal company
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: 1219  ADR Class: 3
Packing group: II  Classification code: F1
Shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL) (PROPAN-2-OL)
Labelling: 3  Hazard ID no: 33

[cont...]
15. REGULATORY INFORMATION

Hazard symbols: Highly flammable.
Irritant.

Risk phrases: R11: Highly flammable.
R41: Risk of serious damage to eyes.
R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39: Wear eye / face protection.

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: R11: Highly flammable.
R36: Irritating to eyes.
R67: Vapours may cause drowsiness and dizziness.
R41: Risk of serious damage to eyes.
R50: Very toxic to aquatic organisms.

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.