



SAFETY DATA SHEET

BI-SOL

Page 1

Issued: 27/02/06

Revision No: 3

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

Product name: BI-SOL

Use / description of product: Biodegradable dispersant.

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: POTASSIUM SILICATE SOLUTION 10-30%

CAS: 1312-76-1

[Xi] R38; [Xi] R41

- POTASSIUM HYDROXIDE 1-10%

EINECS: 215-181-3 CAS: 1310-58-3

[Xn] R22; [C] R35

- FATTY ALCOHOL ETHOXYLATE 1-10%

[Xn] R22; [Xi] R36/38

- COCONUT DIETHANOLAMIDE 1-10%

CAS: 8051-30-7

[Xi] R36/38

Contains: 10-30% Citric Acid.

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. 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. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. There may be

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SAFETY DATA SHEET

BI-SOL

coughing and a sore throat. 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.
- 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:** The product is non-combustible; appropriate extinguishing media for surrounding area should be used in fire situations.
- 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:** Turn leaking containers leak-side up to prevent the escape of liquid. Wear appropriate protective clothing.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using sufficient appropriate absorbent material.
- Clean-up procedures:** Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method. 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.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Hazardous ingredients:** POTASSIUM HYDROXIDE
WEL (15 min exposure limit): 2 mg/m³
- Engineering measures:** Ensure there is sufficient ventilation of the area.

SAFETY DATA SHEET

BI-SOL

Respiratory protection: If Workplace Exposure Limit(s) listed above are exceeded, respiratory protection may be required.

Hand protection: Protective gloves.

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

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Blue

Odour: Odourless

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Non-viscous

Relative density: 1.1

pH: 13-14

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials to avoid: Strong acids. Finely powdered metals.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: POTASSIUM HYDROXIDE
ORL RAT LD50 273 mg/kg

Routes of exposure: Causes severe burns to eyes and skin. If ingested causes severe internal irritation and damage.

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.

Persistence and degradability: Biodegradable.

Other adverse effects: Should not be discharged directly in concentrated form to water courses. A rise in the pH of water to 10.5 or above may be fatal to fish and other aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Contact licensed waste disposal company.

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

SAFETY DATA SHEET

BI-SOL

Packing group: III **Classification code:** C9
Shipping name: CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE)
Labelling: 8 **Hazard ID no:** 80

**IMDG / IMO**

UN no: 1760 **Class:** 8
Packing group: III **EmS:** F-A,S-B
Marine pollutant: . **Labelling:** 8

IATA / ICAO

UN no: 1760 **Class:** 8
Packing group: III **Packing instructions:** 818(P&CA); 820(CAO)
Labelling: 8

15. REGULATORY INFORMATION

Hazard symbols: Corrosive.



Risk phrases: R34: Causes burns.

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.

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

Other information: This product belongs to Hazard Groups C and S under the HSE COSHH Essentials guidelines (Publication HSG193).

Always use in accordance with manufacturer's directions.

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

SAFETY DATA SHEET

BI-SOL

Risk phrases used in s.2: R38: Irritating to skin.
R41: Risk of serious damage to eyes.
R22: Harmful if swallowed.
R35: Causes severe burns.
R36/38: Irritating to eyes and skin.

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.