



SAFETY DATA SHEET

BIO-FOAM

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Issued: 29/08/06

Revision No: 3

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

Product name: BIO-FOAM

Use / description of product: Biocidal foaming detergent.

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:** SODIUM HYDROXIDE 1-10%
EINECS: 215-185-5 CAS: 1310-73-2
[C] R35
- COCONUT DIETHANOLAMIDE 1-10%
CAS: 8051-30-7
[Xi] R36/38
 - 2-METHYLPENTANE-2,4-DIOL 1-10%
EINECS: 203-489-0 CAS: 107-41-5
[Xi] R36/38
 - PROPAN-2-OL 1-10%
EINECS: 200-661-7 CAS: 67-63-0
[F] R11; [Xi] R36; [-] R67
 - AMPHOTERIC SURFACTANT 1-10%
CAS: 68424-94-2
[Xi] R36
 - TRISODIUM NITRILOTRIACETATE 1-10%
CAS: 5064-31-3
[Xn] R22; [Xi] R41

3. HAZARDS IDENTIFICATION

Main hazards: Causes burns.

4. FIRST AID MEASURES (SYMPTOMS)

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

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

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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.

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: Mark out the contaminated area with signs and prevent access to unauthorised personnel. 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: Absorb onto sand, vermiculite etc. and transfer to a suitable container, or neutralise carefully with dilute hydrochloric acid (test with litmus paper if available) and flush away with plenty 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. Wear appropriate protective clothing when handling this product.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: SODIUM HYDROXIDE

WEL (8 hr exposure limit): - WEL (15 min exposure limit): 2 mg/m³

- 2-METHYLPENTANE-2,4-DIOL

WEL (8 hr exposure limit): 123 mg/m³ WEL (15 min exposure limit): 123 mg/m³

- 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.

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: Red

Odour: Soapy

Solubility in water: Soluble

Relative density: 1.13

pH: 13.5

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials to avoid: Strong acids. Strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: SODIUM HYDROXIDE

IPR MUS LD50 40 mg/kg

ORL RBT LDLO 500 mg/kg

- 2-METHYLPENTANE-2,4-DIOL

IPR RAT LDLO 1500 mg/kg

ORL MUS LD50 3097 mg/kg

ORL RAT LD50 3700 mg/kg

- PROPAN-2-OL

IVN RAT LD50 1088 mg/kg

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ORL MUS LD50 3600 mg/kg

ORL RAT LD50 5045 mg/kg

SCU MUS LDLO 6 gm/kg

Routes of exposure: May cause burns.**12. ECOLOGICAL INFORMATION****Mobility:** Soluble in water.**Persistence and degradability:** Sodium hydroxide degrades readily by reaction with the natural carbon dioxide in air.**Other adverse effects:** 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 Unicorn Chemicals Ltd to arrange disposal.**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. (SODIUM HYDROXIDE)**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.

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Risk phrases: R34: Causes burns.

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

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

S28: After contact with skin, wash immediately with plenty of water.

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.

Risk phrases used in s.2: R35: Causes severe burns.

R36/38: Irritating to eyes and skin.

R11: Highly flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

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.