



Safety Data Sheet

TOWALEX MB 15

Safety Data Sheet dated 14/4/2004, version 1

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: TOWALEX MB 15
Product type and use: Fire fighting foam
Company:
Sabo Foam srl
Via Caravaggi
24040 Levate (BG)
Emergency telephone number of the company and/or of an authorised advisory centre:
Sabo Foam srl
phone 0039 035 2057011 (office hours)
phone 0039 035 337001 (24h/24 ; 7gg/7) (emergency number)
fax 0039 035 4549005

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

10% - 30% 2-butoxyethanol
N.67/548/CEE: 603-014-00-0 CAS: 111-76-2 EINECS: 203-905-0
Xn R20/21/22 R36/38

10% - 30% Hydrocarbon surfactants
Xi R36/38

0.5% - 5% Ethanediol
N.67/548/CEE: 603-027-00-1 CAS: 107-21-1 EINECS: 203-473-3
Xn R22

0.5% - 5% Detergent
Xi R36/37/38

0.5% - 5% Emulsifier
Xi R36/38

3. HAZARDS IDENTIFICATION

The product is harmful following acute exposure to it and poses a serious health threat if inhaled, ingested, or brought into contact with the skin.

If brought into contact with the eyes, the product causes irritation that may last for over 24 hours, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema.

4. FIRST AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief.

OBTAIN A MEDICAL EXAMINATION.

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).



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Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

Water, CO₂, Foam, Chemical powders, according to the materials involved in the fire.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes.

Protective equipment:

Use protection for the respiratory tract.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Incompatible materials:

None in particular.

Storage conditions:

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).



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Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Exposure limit(s) (ACGIH):

2-butoxyethanol

TLV TWA: 25 ppm - 121 mg/m³ skin

ethanediol

TLV STEL: C 100 mg/m³, A4

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: red liquid
pH: 6.0 - 8.0
Flash point: >55 °C

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

None in particular.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

2-butoxyethanol

LD50 (RABBIT) ORAL: 320 MG/KG

ethanediol

LD50 (RABBIT) ORAL: 5017 MG/KG BW

12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

BIODEGRADABLE

13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

88/379/EEC (Classification and Labelling):

Symbols:

Xn Harmful

R Phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.



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S Phrases:

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

S36/37 Wear suitable protective clothing and gloves.

Contents:

2-butoxyethanol

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

16. OTHER INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Treshold Limit Values - 1997 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Text of R phrases referred to under heading 2:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.
