

Safety data sheet dated 06-10-2011

Version 1



Xi



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

1.1. Product Identifier

Mixture identification: Fire fighting foam concentrate

Trade name: Foaming agent

1.2. Relevant identified uses of the substance/mixture and uses advised against

Fire fighting foam concentrate

1.3. Details of the supplier of the safety data sheet

Company: Tecomec S.r.l.

Strada della Mirandola, 11

42124 Reggio Emilia - Italy Tel +39 0522 959001 - Fax +39 0522 959060

Competent person responsible for the safety data sheet:

sales_dept@geoline.it

1.4. Emergency telephone number

Tecomec S.r.l.

Strada della Mirandola, 11

42124 Reggio Emilia - Italy

Tel +39 0522 959001 - Fax +39 0522 959060

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

Xi Irritant

R Phrases:

R36 Irritating to eyes.

EC regulation criteria 1272/2008 (CLP):



Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Danger

Hazard Statements:

H318 Causes serious eye damage.

Precautionary Statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Special Provisions:

None

Contents:

Alkyl ammonium sulfate

Alkyl sodium sulfate



Xi

Symbols:

Xi Irritant

R Phrases:

R36 Irritating to eyes.

S Phrases:

S24 Avoid contact with skin.

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

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

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

< 10% Alkyl ammonium sulfate

CAS: 90583-12-3 EC: 292-210-6

Xi; R41-38

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/1 Eye Dam. 1 H318

< 10% Diethylene Glycol Monobutyl Ether

N.67/548/CEE: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6

Xi; R36

⚠ 3.3/2 Eye Irrit. 2 H319

< 5% Ethylene Glycol

CAS: 107-21-1 EC: 203-473-3

Xn; R22

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.9/2 STOT RE 2 H373

< 3% Decil solfato sodico

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CAS: 142-87-0 EC: 205-568-5

Xn,Xi; R22-38-41

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/1 Eye Dam. 1 H318

< 1% Alkyl Alcohol

CAS: 112-53-8

Xi,N; R50-38

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 4.1/A1 Aquatic Acute 1 H400

4. FIRST AID MEASURES

4.1. Description of 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.

Swallowing: do not induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety- data sheet.

A suspension of activated charcoal in water, or liquid paraffin may be administered. Inhalation: Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

This preparation is an extinguishing media.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Diethylene Glycol Monobutyl Ether - Index: 603-096-00-8, CAS: 112-34-5, EC No: 203-961-6

OEL Type: 04 LTE mg/m³: 100 LTE ppm: N.A. STE mg/m³: N.A. STE ppm: N.A.

Behaviour: N.A. Notes: Stato CH - skin

OEL Type: 05 LTE mg/m³: 67.5 LTE ppm: 10 STE mg/m³: 101.2 STE ppm: 15

Behaviour: N.A. Notes: Stato EU - skin

TLV TWA: 67,5 mg/m³; 10 ppm (OEL(IT))

TLV STEL: 101,2 mg/m³; 15 ppm (OEL(IT))

Alkil sodium sulfate - Index: NA, CAS: 142-87-0, EC No: 205-568-5

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

Ethylene Glycol - Index: NA, CAS: 107-21-1, EC No: 203-473-3

TLV TWA: 52 mg/m³ 20 ppm

TLV STEL: 104 mg/m³ 40ppm

Alkyl ammonium sulfate - Index: NA, CAS: 142-87-0, EC No: 205-568-5

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

Alkyl Alcool- Index: NA, CAS: 112-53-8, EC No: NA

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance and color	clear pink liquid
Odour:	carateristic
Odour threshold:	N.A.
pH:	6,5 – 9
Melting point / freezing point:	- 5 °C
Initial boiling point and boiling range:	> 100 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	< 1
Flash point:	> 100 °C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1.02 - 1.06 g/ml
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	< 20 cSt
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Carbon oxide

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Oral toxicity LD50 (rat) > 2000 mg/Kg

12. ECOLOGICAL INFORMATION

12.1. Toxicity

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

Do not use when plants are in flower: the product is toxic for bees.

Test: LC50 Species: LEUCISCUS IDUS mg/l: > 1000

12.2. Persistence and degradability

Biodegradability: >90% (OECD)

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

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- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

Not regulated (Not Hazardous)

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009.

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).

- 15.2. Chemical Safety Assessment
No

16. OTHER INFORMATION

Text of phrases referred to under heading 3:

R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.

H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H302 Harmful if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

This document was prepared by a competent person who has received appropriate training.

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
CCNL - Appendix 1
Insert further consulted bibliography

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.