

Safety Data Sheet

FOMTEC AFFF 3% ICAO

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

1.1 Product Identifier

Product name: Fomtec AFFF 3% ICAO

Article no: 10-3030-XX / UFI Code

Importer / Supplier:Fire Protection TechnologiesAddressUnit 1/251 Ferntree Gully Road

Mt Waverley, Victoria, 3149 Australia.

Telephone Number 1300 742 296

Emergency Telephone No. 24 hours 1300 742 296

Emergency Services Dial 000

SDS Preparer Fire Protection Technologies

Manufacturer: Dafo Fomtec AB

Box 683

SE-13526 Tyreso

Sweden

+46 850640500 info@fomtec.com www.fomtec.com

2. HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Eye Irrit. 2; H319; Causes serious eye irritation

2.2 Label elements

Hazard Pictograms (CLP)



Signal word Warning



Hazard statements Causes serious eye irritation

Safety statements General prevention: P280, Wear eye protection. P264, Wash hands

/exposed areas thoroughly after handling.

Response: P337+P313, If eye irritation persists, get medical advice /attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Product/Ingredient name	Identifier Number	% w/w	CLP	Note
2-(2- butoxyethoxy)ethanol; diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8	5-10%	Eye Irrit. 2, H319	Annex XVII, EU
Sodium decyl sulphate	CAS No.: 142-87-0 EC No.: 205-568-5	1-3%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
D-Glucopyranose, oligomers, decyl octyl glycosides	CAS No.: 68515-73-1 EC No.: 500-220-1	1-3%	Eye Dam. 1, H318	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information In the case of accident: Contact a doctor or casualty department –

take the label or this safety data sheet. Contact a doctor if in dout about the injured persons condition or if the symptoms persist.

Never give an unconscious person water or other drink.

Inhalation Bring the person into fresh air and stay with him/her.

Skin contact Immediately remove contaminated clothing and shoes. Ensure that

skin, which has been exposed to the material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use

solvents or thinners.

Eye contact Remove contact lenses. Flush eyes immediately with plenty of

water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue

flushing during transport.

Ingestion Provide plenty of water for the person to drink and stay with

him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommenced by the doctor. Have the victim lean forward with head down to avoid inhalation of, or

choking on, vomited material.



4.2 Most important symptoms and effects, both acute and delayed

Irritation effects This product contains substances, which may cause

irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3 Indication of any immediate medical attention and special treatment

If eye irritation persists Get medical advice/attention
Information to medics Bring this safety data sheet

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

This product is not flammable.

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Wear self contained breathing apparatus and protective closing to prevent contact. Upon direct exposure contact The National Poisons Information Service in order to obtain further advice.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No specific requirements

6.2 Environmental precautions

No specific requirements

6.3 Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

7. HANDLING AND STORAGE



7.1 Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms

7.2 Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage Temperature: Dry, cool and well ventilated (< 55°C)

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Long term exposure limit (8 hours) (ppm): 10 Long term exposure limit (8 hours) (mg/m³): 67,5 Short term exposure limit (15 minutes) (ppm): 15 Short term exposure limit (15 minutes) (mg/m³): 101,2

DNEL

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

DNEL: 68 mg/m³

Route of exposure: Inhalation

Duration: Long term – Systemic effects – Workers

DNEL: 101.2 mg/m³

Route of exposure: Inhalation

Duration: Short term – Local effects – Workers

DNEL: 83 mg/kg

Route of exposure: Dermal

Duration: Long term – Systemic effects – Workers

DNEL: 10 ppm

Route of exposure: Inhalation

Duration: Long term – Systemic effects – Workers

DNEL: 60.7 mg/m³

Route of exposure: Inhalation

Duration: Short term – Local effects – General population

DNEL: 50 mg/kg

Route of exposure: Dermal

Duration: Long term – Systemic effects – General population

DNEL: 5 mg/kg

Route of exposure: Oral

Duration: Long term – Systemic effects – General population

Sodium decyl sulphate DNEL: 4060 mg/kg

Route of exposure: Dermal

Duration: Short term – Systemic effects – Workers

DNEL: 285 mg/m³

Route of exposure: Inhalation

Duration: Short term – Systemic effects – Workers



DNEL: 2440 mg/kg

Route of exposure: Dermal

Duration: Long term – Systemic effects – General population

DNEL: 85 mg/m³

Route of exposure: Inhalation

Duration: Long term – Systemic effects – General population

DNEL: 24 mg/kg **Route of exposure**: Oral

Duration: Long term – Systemic effects – General population

D-Glucopyranose, oligomers, decyl octyl glycosides

DNEL: 595000 mg/kg **Route of exposure:** Dermal

Duration: Long term – Systemic effects – Workers

DNEL: 420 mg/m³

Route of exposure: Inhalation

Duration: Long term – Systemic effects – Workers

DNEL: 357000 mg/kg **Route of exposure:** Dermal

Duration: Long term – Systemic effects – General population

DNEL: 124 mg/m³

Route of exposure: Inhalation

Duration: Long term – Systemic effects – General population

DNEL: 35.7 mg/kg **Route of exposure:** Oral

Duration: Long term – Systemic effects – General population

PNEC

2-(2-butoxyethoxy)ethanol; diethylene glycol

monobutyl ether

PNEC: 1.1 mg/L

Route of exposure: Freshwater Duration: No data available

PNEC: 0,11 mg/L

Route of exposure: Marine water Duration: No data available

PNEC: 0,44 mg/L

Route of exposure: Marine water sediment

Duration: No data available

PNEC: 4.4 mg/kg

Route of exposure: Freshwater sediment

Duration: No data available

PNEC: 0.32 mg/kg Route of exposure: Soil Duration: No data available

Sodium decyl sulphate

PNEC: 0,095 mg/l

Route of exposure: Freshwater Duration: No data available

PNEC: 0,0095 mg/l

Route of exposure: Marine water



Duration: No data available

PNEC: 1,5 mg/kg

Route of exposure: Freshwater sediment

Duration: No data available

PNEC: 0,15 mg/kg

Route of exposure: Marine water sediment

Duration: No data available

PNEC: 0,2445 mg/kg Route of exposure: Soil Duration: No data available

PNEC: 0,086 mg/l

Route of exposure: Intermittent release

Duration: No data available

D-Glucopyranose, oligomers, decyl octyl

glycosides

PNEC: 0,1 mg/l

Route of exposure: Freshwater Duration: No data available

PNEC: 0,01 mg/l

Route of exposure: Marine water **Duration:** No data available

PNEC: 0.487 mg/kg

Route of exposure: Freshwater sediment

Duration: No data available

PNEC: 0.048 mg/kg

Route of exposure: Marine water sediment

Duration: No data available

8.2 Exposure controls

General recommendations Smoking, drinking and consumption of food is not allowed in the

work area

Exposure scenarios In the event exposure scenarios are appended to the safety data

sheet, the operational conditions and risk management measures in

these shall be complied with.

Exposure limits Professional users are subjected to the legally set maximum

concentrations for occupational exposure.

Appropriate technical measures Airborne gas and dust concentrations must be kept at a minimum

and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and showers are

clearly marked.

Hygiene measures In between use of the product and at the end of the working day all

exposed areas of the body must be washed thoroughly. Always

wash hands, forearms and face.

Skin protection Dedicated work clothing should be worn

Hand protection Vinyl / PVC Gloves. Thickness 0.6mm



Eye protection

Wear Safety Glasses with side shields. Standards EN166

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form Liquid

Colour Pale yellow
Odour Characteristic

pH 6.5-8.5 Density (g/cm³) 1.015

Viscosity 30.00 mPa.s

Melting point -2°C
Solubility in Water Soluble

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

The product is stable under the conditions, noted in section "Handling and Storage"

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

None

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizing agents and strong reducing agents

10.6 Hazardous decomposition products

This product is not degraded when used as specified in section 1

11. TOXICOLOGICAL INFORMATION



11.1 Information on toxicological effects

Product/Ingredient Name

 $\hbox{$2$-(2-but oxyethoxy)$ethanol; diethylene glycol}\\$

monobutyl ether

Type of toxicity: Acute

Test: LD50

Route of exposure: Oral Result: 2410.00 mg/kg Species: Mouse

Type of toxicity: Acute

Test: LC50

Route of exposure: Inhalation

Result: 29.00 ppm Species: Rat

Type of toxicity: Acute

Test: LD50

Route of exposure: Dermal Result: 2764.00 mg/kg

Species: Rabbit

Type of toxicity: Acute

Test: LD50

Route of exposure: Oral Result: 5660.00 mg/kg

Species: Rat

Sodium decyl sulphate Type of toxicity: Acute

Test: LD50

Route of exposure: Oral Result: 1200.00 mg/kg

Species: Rat

Type of toxicity: Acute

Test: LD50

Route of exposure: Dermal **Result:** 2000.00 mg/kg

Species: Rat

D-Glucopyranose, oligomers, decyl octyl glycosides

Type of toxicity: Acute

Test: LD50

Route of exposure: Dermal **Result:** 2000.00 mg/kg

Species: Rat

Type of toxicity: Acute

Test: LD50

Route of exposure: Oral Result: 2000.00 mg/kg

Species: Rat

Serious eye damage / irritation Causes serious eye irritation

may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

12. ECOLOGICAL INFORMATION



12.1 Toxicity

2-(2-butoxyethoxy)ethanol; diethylene glycol

monobutyl ether

Test: LC50

Duration: 96 hours **Result:** 1300.00 mg/L

Species: Fish

Test: EC50

Duration: 48 hours **Result:** 100.00 mg/L **Species:** Daphnia

Test: EC50

Duration: 96 hours **Result:** 100.00 mg/L **Species:** Algae

Sodium decyl sulphate Test: LC50

Duration: 48 hours **Result:** 13.00 mg/L **Species:** Fish

Test: EC50

Duration: 72 hours **Result:** 8.64 mg/L **Species:** Algae

D-Glucopyranose, oligomers, decyl octyl glycosides

Test: EC50

Duration: 72 hours **Result:** 20.71 mg/L **Species:** Algae

Test: LC50

Duration: 96 hours **Result:** 21.00 mg/L **Species:** Fish

Test: EC50

Duration: 72 hours **Result:** 37.00 mg/L **Species:** Algae

Test: EC50

Duration: 48 hours **Result:** 100.00 mg/L **Species:** Daphnia

12.2 Persistence and degradability

2-(2-butoxyethoxy)ethanol; diethylene glycol

monobutyl ether

Test: OECD 301 C (Modified MITI Test)

Result: 80%

Biodegradability: Yes

Sodium decyl sulphate Test: OECD 301 D (Closed Bottle)

Result: 80%

Biodegradability: Yes

D-Glucopyranose, oligomers, decyl octyl glycosides

Test: OECD 301 E (Modified OECD Screening Test)



Result: 100%

Biodegradability: Yes

12.3 Bio accumulative potential

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Potential Bioaccumulation: No

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product is not covered by the regulations on dangerous waste.

EWC code 16 03 06 – Organic wastes other than those mentioned in 16 03 05

Contaminated packaging Packaging containing residues of the product must be disposed of

similarly to the product.

14. TRANSPORT INFORMATION

14.1 - 14.4

Not dangerous goods according to ADR, IATA and IMDG

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



Sources

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

15.2 Chemical safety assessment

Chemical safety assessment

Yes

16. OTHER INFORMTION

Full list of H-phrases as mentioned in Section 3

H225, Highly flammable liquid and vapour

H301, Toxic if swallowed

H302, Harmful if swallowed

H311, Toxic in contact with skin

H315, Causes skin irritation

H318, Causes serious eye damage

H319, Causes serious eye irritation

H331, Toxic if inhaled

H370, Causes damage to organs

H371, May cause damage to organs

H412, Harmful to aquatic life with long lasting effects