



Safety Data Sheet

FOMTEC AFFF 6%

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Status ISSUED BY: Fire Protection Technologies

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

1.1 Product Identifier

Product name: Fomtec AFFF 6%

Product no: 10-6006-XX / UFI Code

Importer / Supplier: Fire Protection Technologies
Address: Unit 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

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2. HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Classification: Not classified according to Regulation (EC) No. 1272/2008 (CLP).

2.2 Label elements

Hazard pictogram(s): Not applicable
Signal Word: Not applicable
Hazard Statement(s): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 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	3-5%	Eye Irrit. 2, H319	Annex XVII, EU
1-Propanaminium, N(3-aminopropyl)-2-hydroxy-N, Ndimethyl-3-, N-(C8-18 (even numbered) acyl) derivs., hydroxides, inner salts	EC no.: 939-455-3 REACH No.: 01-2119970722-34-0000	>1%	Eye Dam. 1, H318 Aquatic Chronic 3, H412	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General	Contact a doctor of casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's 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 them
Skin contact	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
Eye contact	Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.
Ingestion	Provide plenty of water for the person to drink and stay with them. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of – or choking on vomited materia..

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media	This product is not flammable
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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal protection measures	No specific requirements
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6.2 Environmental precautions

Environmental precautionary measures

No specific requirements

6.3 Methods and material for containment and cleaning up

Cleaning method

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

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

Storage

Always store in containers of the same material as the original container.
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): 10 ppm

Long term exposure limit (8 hours): 67,5 mg/m³

Short term exposure limit (15 minutes): 15 ppm

Short term exposure limit (15 minutes): 101,2 mg/m³

DNEL / PNEC

Product / Ingredient Name	DNEL	Route of Exposure	Duration
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	68 mg/m ³	Inhalation	Long term – Systemic effects - Workers
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	101,2 mg/m ³	Inhalation	Short term – Local effects - Workers
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	83mg/kg	Dermal	Long term – Systemic effects - Workers
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	10 ppm	Inhalation	Short term – Local effects – General population
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	60.7 mg/m ³	Inhalation	Short term – Local effects – General population

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	50 mg/kg	Dermal	Long term – Systemic effects – General population
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	5 mg/kg	Oral	Long term – Systemic effects – General population
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	0,33 mg/kg	Dermal	Long term – Systemic effects - Workers
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	1,18 mg/m3	Inhalation	Long term - Systemic effects - Workers
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	0.17 mg/kg	Dermal	Long term – Systemic effects – General population
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	0.29 mg/m3	Inhalation	Long term – Systemic effects – General population
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	0.17 mg/kg	Oral	Long term – Systemic effects – General population
Product / Ingredient Name	PNEC	Route of Exposure	Duration
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	1.1 mg/L	Freshwater	No data available
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	0,11 mg/L	Marine Water	No data available
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	0,44 mg/L	Marine Water sediment	No data available
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	4.4 mg/kg	Freshwater sediment	No data available
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	0.32 mg/kg	Soil	No data available
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	0,021 mg/l	Freshwater	Continuous
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	0,00152 mg/l	Marine Water	No data available
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	0,697 mg/kg	Marine Water sediment	No data available

1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	0,0414 mg/kg	Soil	No data available
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	6.97 mg/kg	Freshwater sediment	No data available
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	100 mg/l	Sewage Treatment Plant	No data available

8.2 Exposure controls

General recommendations	Smoking, eating and drinking are not allowed in the work premises
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 airflow 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
Individual protection measures, such as PPE	Use only CE marked protective equipment
Skin protection	Dedicated work clothing should be worn
Hand protection	Viny/PVC 0.6mm glove thickness
Eye protection	Wear safety glasses with side shields. EN166 Standards

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Pale Yellow
Odour	characteristic
pH	6.5-8.5
Density (g/cm ³)	~ 1.005
Viscosity	>29 mPa.s
Melting Point (°C)	~ -1



Solubility in water

Soluble

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity

No data available

10.2 Chemical stability

Stability

Stable under the prescribed storage conditions

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions

No special

10.4 Conditions to avoid

Conditions to avoid

No special

10.5 Incompatible materials

Incompatible materials

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

10.6 Hazardous decomposition products

Hazardous decomposition products

The product is not degraded when used as specified in section 1.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological data for substances

Substance

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

Acute toxicity

Type of toxicity: Acute
Effect Tested: LD50
Route of exposure: Oral
Result: 2410.00 mg/kg
Animal test species: Mouse

Type of toxicity: Acute
Effect Tested: LC50
Route of exposure: Inhalation
Result: 29.00 ppm
Animal test species: Rat

Type of toxicity: Acute
Effect Tested: LD50
Route of exposure: Dermal
Result: 2764.00 mg/kg
Animal test species: Rabbit



Substance	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Oral Result: 5660.00 mg/kg Animal test species: Rat
Acute toxicity	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Oral Result: 28950.00 mg/kg Animal test species: Rat Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Dermal Result: 2000.00 mg/kg Animal test species: Rat

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
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-19(even numbered) acyl) derivs., hydroxides, inner salts	Test: LC50 Duration: 96 hours Result: 0.23 mg/l Species: Fish Test: EC50 Duration: 48 hours Result: 4.00 mg/l Species: Daphnia Test: NOEC Duration: 72 hours Result: 0.76 mg/l Species: Algae

12.2 Persistence and degradability

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

Biodegradability: Yes
Test: OECD 301 C (Modified MITI Test)
Result: 80%

1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl- 3-sulfo-, N-(C8-19(even numbered) acyl) derivs., hydroxides, inner salts

Biodegradability: Yes
Result: 57%

12.3 Bio accumulative potential

Bio accumulative potential

No

12.4 Mobility in soil

Mobility

No data available

12.5 Results of PBT and vPvB assessment

Results

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

Methods

Product is not covered by regulations on dangerous waste.

EWC code: 16 03 06

Organic wastes other than those mentioned in 16 03 05

Contaminated Packing

Packaging containing residues of the product must be disposed of similarly to the product.

14. TRANSPORT INFORMATION

14.1 – 14.4

Comments

Not dangerous goods according to ADR, IATA and IMDG

14.5 Environmental hazards

Comments

Not applicable.

15. REGULATORY INFORMATION

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

Restrictions for application

No special conditions required.

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 INFORMATION

List of relevant 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 organ
H371, May cause damage to organ
H412, Harmful to aquatic life with long lasting effects