



Safety Data Sheet

FOMTEC AFFF 6% Ultra

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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% Ultra

Article no: 10-6020-XX

Importer / Supplier: Fire Protection Technologies
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2. HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Eye Irrit. 2; H319

2.2 Label elements

Hazard Pictograms (CLP)



Composition on the label	Sulfuric acid, mono-C6-12-alkyl esters, sodium salts 1-2, 9%
Signal word	Warning
Hazard statements	H319 Causes serious eye irritation
Precautionary statements	P264 Wash thoroughly after handling. P280 Wear protective gloves/ protective clothing / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention.

2.3 Other hazards

PBT / vPvB	This product does not meet the criteria for PBT (persistent / bioaccumulative / toxic) or vPvB (very persistent / very bioaccumulative).
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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Substance	Identification	Classification	Contents
Sulfuric acid, mono-C6-12-alkyl esters, sodium salts	CAS No.: 90583-25-8 EC No.: 292242	Acute tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	1 - 2,9 %
2-(2-Butoxyethoxy) ethnol	CAS No.: 112-345 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH Reg. No.: 01-2119475104-44	Eye Irrit. 2; H319	3 - 6 %

4. FIRST AID MEASURES

4.1 Description of first aid measures

General	Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.



Skin contact	Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly with soap and water for several minutes. Get medical attention if any discomfort continues.
Eye contact	Immediately rinse with plenty of lukewarm water for at least 5 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Contact physician if discomfort continues.
Ingestion	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.
Recommended personal protective equipment for first aid responders	No recommendation given.

4.2 Most important symptoms and effects, both acute and delayed

General symptoms and effects	Causes eye irritation. After extensive contact, may cause irritation to skin. Ingestion of large quantities may cause nausea, vomiting, dizziness, confusion, loss of consciousness
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4.3 Indication of any immediate medical attention and special treatment

Medical treatment	Treat Symptomatically
Medical monitoring for delayed effects	No recommendation given
Separate first aid equipment	Eye wash facility in working area

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	This product is not flammable.
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5.2 Special hazards arising from the substance or mixture

Fire and explosion hazards	None
Hazardous combustion products	In case of fire, carbon monoxide and carbon dioxide may be released

5.3 Advice for firefighters

Personal protective equipment	Use personal protective equipment as required
Firefighting procedures	Follow the general fire precautions indicated by the workplace

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



General measures	Ensure good ventilation
Personal protection measures	Avoid contact with skin and eyes. Do not breathe vapour. For personal protection, see section 8.

6.2 Environmental precautions

Environmental precautionary measures	Prevent discharge of larger quantity to drain. Avoid discharge to the aquatic environment.
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6.3 Methods and material for containment and cleaning up

Clean up	Absorb in vermiculite, dry sand or earth and place into containers. Collect spills to suitable waste containers. Further handling of waste - see section 13.
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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapours. Wash hands before breaks and before smoking, eating or drinking. Wash hands and contaminated areas with water and soap after finished work. Container must be kept tightly closed.
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7.2 Conditions for safe storage, including any incompatibilities

Storage	Store at moderate temperatures in dry, well ventilated area. Keep container tightly closed. Protect against direct sunlight.
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8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

DNEL / PNEC

Substance	Sulfuric acid, mono-C6-12-alkyl esters, sodium salts
DNEL	<p>Group: Professional Route of exposure: Long Term (repeated) – Inhalation – Systemic effect Value: 285 mg/m³</p> <p>Group: Professional Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 4060 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long term (repeated) – Oral – Systemic effect Value: 24 mg/kg bw/day</p> <p>Group: Consumer</p>

	Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 85 mg/m ³
	Group: Consumer Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 2440 mg/kg bw/day
PNEC	Route of exposure: Sewage treatment plant STP Value: 1,35 mg/l
	Route of exposure: Sediment Value: 0,125 mg/l
	Route of exposure: Sediment Value: 1,25 mg/l
	Route of exposure: Water Value: 0,0112 mg/l
	Route of exposure: Water Value: 0,112 mg/l
	Route of exposure: Soil Value: 0,185 mg/l
Substance	2-(2-Butoxyethoxy) ethanol
PNEC	Reference: Predicted No Effect Concentration 1 mg/L aquatic organisms 71 mg/L microorganisms 0,2 mg/kg terrestrial environment 50 mg/kg predators

8.2 Exposure controls

Safety Signs



Precautionary measures to prevent exposure	An eye wash bottle must be available at the work site
Eye / face protection	Wear approved chemical safety goggles where eye exposure is reasonably probably
Hand protection	In cases of prolonged, repeated or extensive exposure, wear protective gloves
Skin / hand protection, long term contact	In cases of prolonged, repeated or extensive exposure, wear protective gloves
Suitable gloves type	Rubber or plastic
Skin protection	Use protective clothes in order to avoid skin contact
Respiratory protection	Ensure good ventilation. In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Clear, yellowish liquid
Colour	Yellowish
Odour	Slight odour.
pH	Status: In delivery state Value: 7,6 – 8,6
Freezing point	Value: -1 °C
Explosion limit	Product is not explosive
Relative density	Value: ~ 1,010 g/ml
Solubility	Soluble in water
Viscosity	Value: ≤ 20 mPas Method: Brookfield DV

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity	Stable product under normal conditions of handling and storage
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10.2 Chemical stability

Stability	Stable product under normal conditions of handling and storage
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10.3 Possibility of hazardous reactions

Possibility of hazardous reactions	Stable product under normal conditions of handling and storage
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10.4 Conditions to avoid

Conditions to avoid	Not known under normal conditions of handling and storage
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10.5 Incompatible materials

Materials to avoid	Alkali earth metals.
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10.6 Hazardous decomposition products

Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Substance Sulfuric acid, mono-C6-12-alkyl esters, sodium salts

Acute toxicity

Type of toxicity: Acute
Effect Tested: LD50
Route of exposure: Oral
Value: > 2000 mg/kg

Type of toxicity: Acute
Effect Tested: LD50
Route of exposure: Dermal
Value: > 2000 mg/kg
Animal test species: Rat

Substance

2-(2-Butoxyethoxy) ethanol

Acute toxicity

Type of toxicity: Acute
Effect Tested: LD50
Route of exposure: Oral
Value: = 5660 mg/kg bw
Animal test species: Rat

Type of toxicity: Acute
Effect Tested: LD50
Route of exposure: Dermal
Value: = 2700 mg/kg bw
Animal test species: Rabbit

Other information regarding health hazards

Skin contact

In case of prolonged contact with skin, may cause irritation

Eye contact

Causes serious eye irritation

Ingestion

In case of ingestion of large quantities may cause nausea, vomiting, dizziness, confusion, loss of consciousness

Symptoms of exposure

In case of ingestion

Ingestion of large quantities may cause nausea, vomiting, dizziness, confusion, loss of consciousness

In case of skin contact

Irritation is possible in case of prolonged contact with skin

In case of eye contact

Irritation of eyes and mucous membrane

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic, fish	Value: >1700 mg/l Test duration: 96 h Species: Rainbow Trout
Substance	Sulfuric acid, mono-C6-12-alkyl esters, sodium salts
Acute aquatic, fish	Value: ~ 110 mg/l Test duration: 48 h Species: Leuciscus Idus Method: DIN 38412 T15
Substance	2-(2-Butoxyethoxy) ethanol
Acute aquatic, fish	Toxicity type: Acute Value: = 1300 mg/l Effective dose concentration: LC50 Exposure time: 96 hour(s) Species: Lepomis macrochirus
Substance	Sulfuric acid, monoC6-12-alkyl esters, sodium salts
Acute aquatic, algae	Value: >100 mg/l Test duration: 48 h Species: Pseudokirchn. Subcapitata
Acute aquatic, Daphnia	Value: >6000 mg/l Test duration: 24 h Species: Daphnia Magna
Substance	Sulfuric acid, mono-C6-12-alkyl esters, sodium salts
Acute aquatic, Daphnia	Value: ~ 240 mg/l Test duration: 48 hrs Species: Daphnia Magna Method: DIN 38412 T11
Substance	2-(2-Butoxyethoxy) ethanol
Acute aquatic, Daphnia	Value: >100 mg/l Effect dose concentration: EC50 Exposure time: 48 hrs Species; D. magna
Ecotoxicity	The product is not environmentally hazardous to aquatic life
Aquatic, comments	On basis of test data

12.2 Persistence and degradability

Substance	Sulfuric acid, mono-C6-12-alkyl esters, sodium salts
Biodegradability	Value: ~ 60% Test period: 10 days
Substance	2-(2-Butoxyethoxy) ethanol
Biodegradability	Value: = 89% Method: degradation in 28 days OECD 301C Comments: Readily biodegradable
Substance	Sulfuric acid, mono-C6-12-alkyl esters, sodium salts
Chemical oxygen demand (COD)	Value: 698 mg/l Method: DIN 38408 H41
Substance	Sulfuric acid, mono-C6-12-alkyl esters, sodium salts



Biological oxygen demand (BOD)

Value: 494 mg/l
Method: EN 1899-1
Concentration: 5 days

Persistence and degradability, comments

This product is expected to be biodegradable

12.3 Bio accumulative potential

Bio accumulative potential

Bioaccumulation: Is not expected to be bio accumulable.

Substance

2-(2-Butoxyethoxy) ethanol

Bioconcentration factor (BCF)

Value: = 2,9
Comments: No bioaccumulation expected

12.4 Mobility in soil

Mobility

The product contains substances, which are water soluble and may spread in water systems.

12.5 Results of PBT and vPvB assessment

PBT assessment results

Not classified as PBT/vPvB by current EU criteria

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Specify the appropriate methods of disposal

Dispose of waste and residues in accordance with local authority requirements.

EWC waste code

EWC waste code: 160305 organic wastes containing dangerous substances
Classified as hazardous waste: Yes

EU Regulations

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives

14. TRANSPORT INFORMATION

14.1 UN number

Comments

Not applicable. No information required

4.2 UN proper shipping name

Comments

Not applicable. No information required.

14.3 Transport hazard class(es)



Comments Not applicable. No information required

14.4 Packing group

Comments Not applicable. No information required.

14.5 Environmental hazards

Comments Not applicable. No information required.

14.6 Special precautions for user

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

Additional Information

Additional information The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. REGULATORY INFORMATION

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

EEC-directive Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods. Commission Directive 2012/45/EU adapting for the second time the Annexes to Directive 2008/68/EC of the European Parliament and of the Council on the inland transport of dangerous goods to scientific and technical progress.

Legislation and regulation Regulation (EC) No 1272/2008 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. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2 Chemical safety assessment

Chemical safety assessment performed Yes

16. OTHER INFORMATION

List of relevant H-phrases (Section 2 and 3).

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes Serious eye damage.
H319 Causes serious eye irritation

Classification according to Regulation (EC) No
1272/2008 [CLP / GHS]

Eye Irrit. 2; H319