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SAFETY DATA SHEET Fomtec AFFF 3% M

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 18.08.2014 Revision date 20.11.2013

1.1. Product identifier

Product name Fomtec AFFF 3% M Article no. 10-3030-XX

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

Use of the substance/preparation Appliance protection.

1.3. Details of the supplier of the safety data sheet

Company name Dafo Fomtec AB

Office address Garnisonsg. 47 A, Helsingborg

Postal address Box 683
Postcode S-13526
City Tyresö
Country Sweden
Tel + 46 8506

Tel + 46 850640500
E-mail info@fomtec.com
Website http://www.fomtec.com/

1.4. Emergency telephone number

Emergency telephone National Poisons Information Service London:+44 20 7771 5394

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Eye Dam. 1; H318; Calculation method

Regulation (EC) No 1272/2008

[CLP/GHS]

2.2. Label elements

Hazard Pictograms (CLP)



Signal word Warning

Hazard statements H318 Causes Serious eye damage.

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.

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2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Sulfuric acid, mono-C6-12-alkyl esters, sodium salts	CAS no.: 90583-25-8 EC no.: 292242	Xn; R22, R38, R41 Acute tox. 4; H302 Skin Irrit. 2;H315 Eye Dam. 1; H318	2 - 6 %
Diethylene glycol monobutyl ether	CAS no.: 112-34-5 EC no.: 203-961-6 Index no.: 603-096-00-8 Synonyms: 2-(2-Butoxyethoxy) ethanol	Xi; R36 Eye Irrit. 2; H319	5 - 10 %

SECTION 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 flush with plenty of water for up to 15 minutes. Remove any

contact lenses and open eyelids widely. If irritation persists: Seek medical

attention and bring along these instructions.

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

Information for health personnel Get medical attention if any discomfort continues.

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

Medical monitoring for delayed

effects

No recommendation given.

Separate first aid equipment No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media This product is not flammable.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards None.

5.3. Advice for firefighters

Fire fighting procedures Follow the general fire precautions indicated by the workplace.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Avoid contact with skin and eyes. Do not breathe vapour. For personal

protection, see section 8.

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6.2. Environmental precautions

Environmental precautionary Prevent discharge of larger quantity to drain. Avoid discharge to the aquatic

measures environment.

6.3. Methods and material for containment and cleaning up

Cleaning method Absorb with sand or other inert absorbent. Flush area clean with lots of

water. Be aware of potential for surfaces to become slippery. For waste

disposal, see section 13.

6.4. Reference to other sections

SECTION 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store at moderate temperatures in dry, well ventilated area. Keep containers

tightly closed. Protect against direct sunlight.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Sulfuric acid, mono-C6-12-alkyl esters, sodium salts	CAS no.: 90583-25-8 EC no.: 292242		
Diethylene glycol monobutyl ether	CAS no.: 112-34-5 EC no.: 203-961-6 Index no.: 603-096-00-8 Synonyms: 2-(2-Butoxyethoxy) ethanol	8-hour TWA: 10 ppm 8-hour TWA: 67,5 mg/m3 15 min.: 15 ppm 15 min.: 101,2 mg/m3	2011

DNEL / PNEC from substances

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

DNEL Group: Worker

Exposure route: Inhalation

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect

Value: 285 mg/m3

DNEL Group: Worker

Exposure route: Dermal

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect Value: 4060 mg/kg bw/day

DNEL Group: Consumer

Exposure route: Oral

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect Value: 24 mg/kg bw/day

DNEL Group: Consumer

Exposure route: Inhalation

Exposure frequency: Long term (repeated)

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Type of effect: Systemic effect

Value: 85 mg/m3 Group: Consumer

DNEL Group: Consumer Exposure route: Dermal

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect Value: 2440 mg/kg bw7day

PNEC Exposure route: Soil

Value: 0,185 mg/l

PNEC Exposure route: Sewage treatment plant STP

Value: 1,35 mg/l

PNEC Exposure route: Sediment

Critical Component: marine water

Value: 0,125 mg/l

PNEC Exposure route: Sediment

Critical Component: Fresh water

Value: 1,25 mg/l

PNEC Exposure route: Water

Critical Component: Marine water

Value: 0,0112 mg/l

PNEC Exposure route: Water

Critical Component: Fresh water

Value: 0,112 mg/l

8.2. Exposure controls Respiratory protection

Hand protection

Hand protection Protective gloves must be used if there is a risk of direct contact or splash.

Suitable gloves type Rubber or plastic.

Eye / face protection

Eye protection Use approved safety goggles or face shield.

Skin protection

Skin protection (except hands)

Use protective clothing, which covers arms and legs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Clear, yellowish liquid.

 $\begin{array}{lll} \mbox{Colour} & \mbox{Yellowish.} \\ \mbox{Odour} & \mbox{Slight odour.} \\ \mbox{pH (as supplied)} & \mbox{Value: } 6,5-8,5 \\ \mbox{Freezing point} & \mbox{Value: } -5 \ ^{\circ}\mbox{C} \\ \mbox{Specific gravity} & \mbox{Value: } \sim 1,03 \ \mbox{g/ml} \end{array}$

Solubility description Completely soluble in water.

Viscosity Value: ≤ 20 mPas

Method of testing: Brookfield DV

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known conditions that are likely to result in a hazardous

situation.

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10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None.

10.4. Conditions to avoid

Conditions to avoid Earth metals such as sodium, potassium and barium.

10.5. Incompatible materials

Materials to avoid Alkali earth metals.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other

toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

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

LD50 oral Value: > 2000 mg/kg
LD50 dermal Value: > 2000 mg/kg
Animal test species: Rat

Potential acute effects

Skin contact Liquid may irritate skin.

Eye contact Spray and vapour in the eyes may cause irritation and smarting.

Delayed effects / repeated exposure

Sensitisation No known chronic or acute health risks.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity

No known chronic or acute health risks.

Mutagenicity

No known chronic or acute health risks.

Reproductive toxicity

No known chronic or acute health risks.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic, comments On basis of test data.

Toxicological data for substances

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

Acute aquatic, fish Value: ~ 110 mg/l

Method of testing: DIN 38412 T15

Species: Leuciscus Idus

Duration: 48 h

Acute aquatic, algae Value: > 100 mg/l

Species: Pseudokirchn. Subcapitata

Duration: 48 h

Acute aquatic, Daphnia Value: ~ 240 mg/l

Method of testing: DIN 38412 T11

Species: Daphnia Magna

Duration: 48 h

Biodegradability Value: ~ 60 %

Test period: 10 days

Chemical oxygen demand (COD) Value: 698 mg/l

Method of testing: DIN 38408 H41

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Biological oxygen demand (BOD) Value: 494 mg/l

Test period: 5 days

Method of testing: EN 1899-1

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation: Is not expected to be bioaccumulable.

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

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of

Dispose of waste and residues in accordance with local authority

requirements.

Relevant waste regulation Directive 2008/98/EC of the European Parliament and of the Council of 19

November 2008 on waste and repealing certain Directives (Text with EEA

relevance).

EWC waste code EWC: 160305 organic wastes containing dangerous substances

SECTION 14: Transport information

14.1. UN number

disposal

Comments Not applicable. No information required.

14.2. 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 73/78 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).

SECTION 15: Regulatory information

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

EEC-directive COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance). Methods of evaluating information (Art. 9 Regulation (EC) No 1272/2008): Dangerous Preparations Directive 1999/45/EC.

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> 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.

Legislation and regulations Directive 2008/68/EC of the European Parliament and of the Council of 24

September 2008 on the inland transport of dangerous goods (Text with EEA

relevance).

15.2. Chemical safety assessment

Chemical safety assessment

performed

Yes

SECTION 16: Other information

Classification according to

Regulation (EC) No 1272/2008

[CLP/GHS]

List of relevant R-phrases (under

headings 2 and 3).

Eye Dam. 1; H318; Calculation method

R38 Irritating to skin. R36 Irritating to eyes.

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes. H318 Causes Serious eye damage.

List of relevant H-phrases (Section

2 and 3).

H302 Harmful if swallowed. H319 Causes serious eye irritation.

H315 Causes skin irritation.

Version

Responsible for safety data sheet Dafo Fomtec AB