



A Tyco International Company

SABO FOAM s.r.l.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TOWALEX AFFF 3% PLUS

Print date: 07.01.2014

Product code: 1010-3-078

Page 1 of 6

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

1.1. Product identifier

TOWALEX AFFF 3% PLUS

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

Use of the substance/mixture

Fire extinguishing agent

Uses advised against

Do not use for products which come into contact with the food stuffs. Do not use for medical-clinical purposes. Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name: SABO FOAM s.r.l.
Levate, Italia
Street: Via Caravaggi
Place: I-24040 Levate (BG)
Telephone: +39.035.205.7011 Telefax: +39.035.454.9005
e-mail: sabofoam.levate@tycoint.com
Contact person: Health and Safety Manager
Responsible Department: Health and Safety

1.4. Emergency telephone number:

+39 035 337 001

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xi - Irritant

R phrases:

Irritating to eyes.

GHS classification

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes serious eye damage.

2.2. Label elements

Hazardous components which must be listed on the label

Sodium Monoctylsulfate
Sodium Monodecylsulfate

Signal word: Danger

Pictograms: GHS05



Hazard statements

H318 Causes serious eye damage.

Precautionary statements

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



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TOWALEX AFFF 3% PLUS

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Page 2 of 6

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aqueous surfactant solution.

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
203-473-3	ethanediol, ethylene glycol	5 - 10 %
107-21-1	Xn - Harmful R22	
603-027-00-1	Acute Tox. 4; H302	
203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	5 - 10 %
112-34-5	Xi - Irritant R36	
603-096-00-8	Eye Irrit. 2; H319	
205-535-5	Sodium Monooctylsulfate	1 - 5 %
142-31-4	Xi - Irritant R38-41	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H228 H318 H315	
205-568-5	Sodium Monodecylsulfate	1 - 5 %
142-87-0	Xn - Harmful, Xi - Irritant R22-38-41	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth thoroughly with water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing materials should be selected according to the surrounding area.

Unsuitable extinguishing media

none/none



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Product code: 1010-3-078

Page 3 of 6

5.2. Special hazards arising from the substance or mixture

none/none

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

8.2. Exposure controls

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Skin protection

Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: light yellow
 Odour: characteristic

Test method

pH-Value: 7.5



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Page 4 of 6

Changes in the physical state

Boiling point:

100 °C

Density:

1.03 g/cm³

SECTION 10: Stability and reactivity

10.3. Possibility of hazardous reactions

none/none

10.4. Conditions to avoid

none/none

10.5. Incompatible materials

Alkali metals.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Sulfur oxides. Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

Mixture not tested.

Acute toxicity

Mixture not tested.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
107-21-1	ethanediol, ethylene glycol				
	oral	ATE	500 mg/kg		
	dermal	LD50	10600 mg/kg	Rabbit	GESTIS
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50	5660 mg/kg	Rat	
	dermal	LD50	4120 mg/kg	Rabbit	
142-87-0	Sodium Monodecylsulfate				
	oral	ATE	500 mg/kg		

Irritation and corrosivity

Mixture not tested.

Sensitising effects

Mixture not tested.

Severe effects after repeated or prolonged exposure

Mixture not tested.

Carcinogenic/mutagenic/toxic effects for reproduction

Mixture not tested.

Specific effects in experiment on an animal

Mixture not tested.

SECTION 12: Ecological information



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Product code: 1010-3-078

Page 5 of 6

12.1. Toxicity

Mixture not tested.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute algae toxicity	ErC50	> 100 mg/l		Scenedesmus sp.	
	Acute crustacea toxicity	EC50	> 100 mg/l	48	Daphnia magna	

12.2. Persistence and degradability

Mixture not tested.

12.3. Bioaccumulative potential

Mixture not tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol, ethylene glycol	-1,36
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	0,56 (25°C)

12.4. Mobility in soil

Mixture not tested.

Further information

No special environmental protection measures are necessary.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations.

Waste disposal number of waste from residues/unused products

161002 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; aqueous liquid wastes destined for off-site treatment; aqueous liquid wastes other than those mentioned in 16 10 01

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Waste disposal according to official state regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: Not dangerous goods

Inland waterways transport (ADN)

14.1. UN number: Not dangerous goods

Marine transport (IMDG)

14.1. UN number: Not dangerous goods

Air transport (ICAO)

14.1. UN number: Not dangerous goods

14.5. Environmental hazards



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Product code: 1010-3-078

Page 6 of 6

Dangerous for the environment: no

SECTION 15: Regulatory information

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

National regulatory information

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

- | | |
|----|---------------------------------|
| 22 | Harmful if swallowed. |
| 36 | Irritating to eyes. |
| 38 | Irritating to skin. |
| 41 | Risk of serious damage to eyes. |

Full text of H statements referred to under Sections 2 and 3

- | | |
|------|--------------------------------|
| H228 | Flammable solid. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)