



## Safety Data Sheet

This safety data sheet complies with the requirements of: Regulation (EC) No 453/2010

**Product name** TOWALEX AFFF 3% PLUS Foam Concentrate

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

#### 1.1. Product Identifier

<b>Product code</b>	F103146T1
<b>Product name</b>	TOWALEX AFFF 3% PLUS Foam Concentrate
<b>Pure substance/mixture</b>	Mixture

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

<b>Sold to the general public</b>	No
<b>Recommended use</b>	Fire extinguishing agent

<b>Uses advised against</b>	Consumer use
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#### 1.3. Details of the supplier of the safety data sheet

##### Company Name

SABO FOAM s.r.l.  
Via Caravaggi  
Levate (BG), Italy 24040  
Telephone: +39.035.205.7011

For further information, please contact

<b>E-mail address</b>	psra@tycofp.com
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#### 1.4. Emergency telephone number

**Emergency telephone - CHEMTREC 800-424-9300 or 703-527-3887**

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*  
Serious eye damage/eye irritation - Category 1 - (H318)

#### 2.2. Label Elements

**Product Identifier**



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Contains Sodium Octyl Sulfate, Sodium Decyl Sulfate



Signal Word  
DANGER

**hazard statements**

H318 - Causes serious eye damage.

**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear 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. P310 - Immediately call a POISON CENTRE or doctor/physician.

**2.3. Other Hazards**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**2.4. Precautionary Statements**

**precautionary statements**

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. P310 - Immediately call a POISON CENTRE or doctor/physician.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not Applicable

**3.2 Mixture**

Chemical name	EC No	CAS No	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Ethylene Glycol	203-473-3	107-21-1	0 - 10%	Acute Tox. 4 (H302)	01-2119456816-28
2-(2-Butoxyethoxy)ethanol	203-961-6	112-34-5	0 - 10%	Eye Irrit. 2 (H319)	01-2119475104-44
Sodium Octyl Sulfate	205-535-5	142-31-4	0 - 10%	Eye Dam. 1 (H318) Skin Irrit. 2 (H315)	01-2119966154-35



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Sodium Decyl Sulfate	205-568-5	142-87-0	0 - 10%	Skin Irrit. 2 (H315) Dam. 1 (H318)	01-2119970328-30
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Full text of H- and EUH-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control centre or physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Prolonged skin contact may defat the skin and produce dermatitis.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

None

### 5.2. Special hazards arising from the substance or mixture

None known

#### **Hazardous Combustion Products**

Carbon oxides. Fluorinated oxides. Nitrogen oxides (NOx). Oxides of sulphur.



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### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation, especially in confined areas.

Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

### **6.3. Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labelled containers.

### **6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

#### **General hygiene considerations**

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

### **7.3. Specific end use(s)**

#### **Specific Use(s)**

Fire extinguishing agent.

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

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### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	United Kingdom	Russia
Ethylene Glycol 107-21-1	S* TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup>	STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> Skin	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup> TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup>	MAC: 10 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

### 8.2. Exposure controls

Engineering controls Showers  
Eyewash stations  
Ventilation systems.

#### Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes. Tight sealing safety goggles.  
Skin and Body Protection Suitable protective clothing.

Environmental exposure controls No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical State	Liquid	Colour	Light yellow
Odour	Characteristic		
odour threshold	No data available		

Property	VALUES	Remarks • Method
pH	7.5	
Melting point/freezing point		No data available



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<b>Boiling point / boiling range</b>	100 °C / 212 °F	
<b>Flash Point</b>	> 100 °C / > 212 °F	
<b>Evaporation Rate</b>		No data available
<b>flammability (solid, gas)</b>		No data available
<b>Flammability limit in air</b>		
<b>Upper flammability limit:</b>		No data available
<b>Lower flammability limit:</b>		No data available
<b>Vapour Pressure</b>		No data available
<b>Vapour Density</b>		No data available
<b>Specific gravity</b>		No data available
<b>Water Solubility</b>		No data available
<b>solubility(ies)</b>		No data available
<b>Partition coefficient</b>		No data available
<b>Autoignition Temperature</b>		No data available
<b>Decomposition Temperature</b>		No data available
<b>Kinematic viscosity</b>		No data available
<b>Dynamic viscosity</b>		No data available
<b>Explosive Properties</b>	No data available	
<b>Oxidising Properties</b>	No data available	
<b>density</b>	1.02	

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No data available.

### **10.2. Chemical stability**

Stable under recommended storage conditions.

Sensitivity to Mechanical Impact   None.  
Sensitivity to Static Discharge      None.

### **10.3. Possibility of hazardous reactions**

#### **hazardous polymerisation**

Hazardous polymerisation does not occur.

None under normal processing.

### **10.4. Conditions to avoid**

Extremes of temperature and direct sunlight.

### **10.5. Incompatible materials**

Strong oxidising agents. Strong acids. Strong bases.



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#### 10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur. Fluorinated oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute Toxicity

##### Product information

Product does not present an acute toxicity hazard based on known or supplied information.

##### Unknown Acute Toxicity

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,576.00 mg/kg  
ATEmix (dermal) 33,098.00 mg/kg

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Ethylene Glycol	= 4000 mg/kg ( Rat )	= 9530 µL/kg ( Rabbit )	
2-(2-Butoxyethoxy)ethanol	= 3384 mg/kg ( Rat )	= 2700 mg/kg ( Rabbit )	

**Skin Corrosion/Irritation** No information available.  
**Serious eye damage/eye irritation sensitisation** No information available.  
**Germ Cell Mutagenicity carcinogenicity** No information available.

**Reproductive Toxicity** No information available.  
**STOT - Single Exposure** No information available.  
**STOT - Repeated Exposure** No information available.  
**Aspiration Hazard** No information available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
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Ethylene Glycol	EC50 96 h 6500 - 13000 mg/L Pseudokirchneriella subcapitata	LC50 96 h = 41000 mg/L Oncorhynchus mykiss LC50 96 h 14 - 18 mL/L Oncorhynchus mykiss static LC50 96 h = 27540 mg/L Lepomis macrochirus static LC50 96 h = 40761 mg/L Oncorhynchus mykiss static LC50 96 h 40000 - 60000 mg/L Pimephales promelas static LC50 96 h = 16000 mg/L Poecilia reticulata static	EC50 48 h = 46300 mg/L Daphnia magna
2-(2-Butoxyethoxy)ethanol	EC50 96 h > 100 mg/L Desmodesmus subspicatus	LC50 96 h = 1300 mg/L Lepomis macrochirus static	EC50 24 h = 2850 mg/L Daphnia magna EC50 48 h > 100 mg/L Daphnia magna

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

No information available.

Chemical name	Partition coefficient
Ethylene Glycol	-1.93

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No information available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Waste from Residues/Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Do not re-use container.





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## SECTION 14: Transport information

### IMDG

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Marine Pollutant	Not Applicable
14.6 Special Provisions	None
14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE	No information available

### RID

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

### ADR

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

### ICAO (air)

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

### IATA

14.1 UN/ID no	NOT REGULATED
14.2 Proper Shipping Name	NOT REGULATED
14.3 Hazard class	NOT REGULATED
14.4 Packing group	NOT REGULATED
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None



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## SECTION 15: Regulatory information

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

Chemical name	French RG number	Title
Ethylene Glycol 107-21-1	RG 84	-
2-(2-Butoxyethoxy)ethanol 112-34-5	RG 84	-

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
2-(2-Butoxyethoxy)ethanol - 112-34-5	55.	

#### Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not Applicable

#### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances



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## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H318 - Causes serious eye damage

H315 - Causes skin irritation

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:

#### **Legend SECTION 8: Exposure controls/personal protection**

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

\*

Skin designation

**Revision date** 25-May-2015

**Revision note** Not Applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**