



## Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard ( 29CFR 1910.1200)

**Product name** METEOR T-10 High Expansion Foam Concentrate

### 1. Identification

#### 1.1. Product Identifier

**Product name** METEOR T-10 High Expansion Foam Concentrate

#### 1.2. Other means of identification

**Product code** F203163D1  
**Synonyms** None  
**Chemical Family** No information available

#### 1.3. Recommended use of the chemical and restrictions on use

**Recommended use** Fire extinguishing agent  
**Uses advised against** Consumer use

#### 1.4. 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

**Contact point** Product Stewardship at 1-715-735-7411  
**E-mail address** psra@tycofp.com

#### 1.5. Emergency Telephone Number

### 2. Hazards Identification

#### Classification

##### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation - Category 2  
Serious eye damage/eye irritation - Category 1

#### 2.2. Label Elements

**Signal Word**  
DANGER

#### **hazard statements**

CAUSES SKIN IRRITATION  
Causes serious eye damage



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### Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

### 2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

### 2.4. OTHER INFORMATION

Unknown Acute Toxicity

15.5% of the mixture consists of ingredient(s) of unknown toxicity

## 3. Composition/information on Ingredients

### 3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No	weight-%
Water	7732-18-5	30 - 60
Molasses	68476-78-8	10 - 30
Sodium Octyl Sulfate	142-31-4	5 - 10
2-Butoxyethanol	111-76-2	5 - 10
2-(2-Butoxyethoxy)ethanol	112-34-5	5 - 10
Ethylene Glycol	107-21-1	1 - 5
Lauryl-/ Myristylsulfate, sodium salt	85586-07-8	1 - 5



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Fatty Alcohol sulfate, sodium salt	9004-82-4	1 - 5
Lauryl Alcohol	112-53-8	1 - 5
Sodium Citrate	68-04-2	0.1 - 1

#### 4. First aid measures

##### 4.1. Description of first aid measures

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).

**Ingestion** Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

##### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms** No information available.

##### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

**Note to physicians** Treat symptomatically.

#### 5. Fire-fighting measures

##### 5.1. Suitable Extinguishing Media

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

##### 5.2. Unsuitable Extinguishing Media

None.

##### 5.3. Specific Hazards Arising from the Chemical

None known.

**Hazardous Combustion Products** Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur

##### 5.4. Explosion Data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### 5.5. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



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## 6. Accidental release measures

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

**Personal Precautions** Ensure adequate ventilation, especially in confined areas.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental Precautions

**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 labeled containers.

## 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.

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

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

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

## 8. Exposure Controls/Personal Protection

### 8.1. Control Parameters

#### Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-	-
Ethylene Glycol 107-21-1	Ceiling: 100 mg/m <sup>3</sup> aerosol only	-	-

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health

### 8.2. Appropriate Engineering Controls



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**Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**8.3. Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**

Avoid contact with eyes. Tight sealing safety goggles.

**Skin and Body Protection**

Wear protective gloves and protective clothing.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Ventilation**

Use local exhaust or general dilution ventilation to control exposure with applicable limits

**8.4. General hygiene considerations**

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

**9. Physical and Chemical Properties**

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

Physical State	Liquid		
Odor	Characteristic	Color	Amber
odor threshold	No data available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks • Method</u>
pH	7	
Melting point/freezing point	No data available	
Boiling point / boiling range	100 °C / 212 °F	
Flash Point	> 100 °C / > 212 °F	
Evaporation Rate	No data available	
flammability (solid, gas)	No data available	
Flammability limit in air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Specific gravity	No data available	
Water Solubility	No data available	
Solubility in Other Solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic viscosity	No data available	



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## 10. Stability and Reactivity

### 10.1. Chemical Stability

Stable under recommended storage conditions.

### 10.2. Reactivity

No data available

### 10.3. Possibility of hazardous reactions

None under normal processing.

#### **hazardous polymerization**

Hazardous polymerization does not occur.

### 10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>). Oxides of sulfur.

## 11. Toxicological Information

### 11.1. Information on Likely Routes of Exposure

**Product information** no data available

**INHALATION** no data available.

**Eye Contact** no data available.

**Skin contact** no data available.

**INGESTION** no data available.

### Acute Toxicity

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Sodium Octyl Sulfate 142-31-4	= 3200 mg/kg ( Rat )	-	-



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2-Butoxyethanol 111-76-2	= 470 mg/kg ( Rat )	= 220 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h
2-(2-Butoxyethoxy)ethanol 112-34-5	= 3384 mg/kg ( Rat )	= 2700 mg/kg ( Rabbit )	-
Ethylene Glycol 107-21-1	= 4000 mg/kg ( Rat )	= 9530 µL/kg ( Rabbit )	-
Lauryl-/ Myristylsulfate, sodium salt 85586-07-8	> 1000 mg/kg ( Rat )	-	-
Fatty Alcohol sulfate, sodium salt 9004-82-4	= 1600 mg/kg ( Rat )	-	-
Lauryl Alcohol 112-53-8	> 5000 mg/kg ( Rat )	-	-

#### 11.2. Information on Toxicological Effects

**Symptoms** No information available.

#### 11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure sensitization

No information available.

**Germ Cell Mutagenicity**

No information available.

**carcinogenicity**

No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol 111-76-2	A3	Group 3	-	-

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Not classifiable as a human carcinogen*

**Reproductive Toxicity**

No information available.

**STOT - Single Exposure**

No information available.

**STOT - Repeated Exposure**

No information available.

**Chronic Toxicity**

May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

**Target organ effects**

Blood, Central Nervous System, EYES, hematopoietic system, Kidney, Liver, Respiratory System, skin.

**Aspiration Hazard**

No information available.

#### 11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/l

## 12. Ecological Information

#### 12.1. ecotoxicity

Not classified

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

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-Butoxyethanol 111-76-2	-	LC50 96 h = 1490 mg/L <i>Lepomis macrochirus</i> static LC50 96 h = 2950 mg/L <i>Lepomis macrochirus</i>	EC50 48 h > 1000 mg/L <i>Daphnia magna</i> EC50 24 h 1698 - 1940 mg/L <i>Daphnia magna</i>



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2-(2-Butoxyethoxy)ethanol 112-34-5	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
Ethylene Glycol 107-21-1	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
Lauryl-/ Myristylsulfate, sodium salt 85586-07-8	-	LC50 96 h = 2.5 mg/L Pimephales promelas LC50 96 h 10 - 100 mg/L Brachydanio rerio static	EC50 48 h = 2.8 mg/L Daphnia magna
Lauryl Alcohol 112-53-8	EC50 96 h = 0.62 mg/L Desmodesmus subspicatus	LC50 96 h = 1.01 mg/L Pimephales promelas flow-through LC50 96 h = 0.1855 mg/L Pimephales promelas	EC50 48 h = 320 mg/L Daphnia magna
Sodium Citrate 68-04-2	EC50 96 h 18000 - 32000 mg/L Chlorella vulgaris	LC50 96 h 18000 - 32000 mg/L Poecilia reticulata	EC50 48 h 5600 - 10000 mg/L Daphnia magna

#### 12.2. Persistence and Degradability

No information available.

#### 12.3. Bioaccumulation

No information available.

Chemical name	Partition coefficient
2-Butoxyethanol 111-76-2	0.81
Ethylene Glycol 107-21-1	-1.93
Lauryl Alcohol 112-53-8	5.36

#### 12.4. Other Adverse Effects

No information available

### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

##### Disposal of wastes

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

##### Contaminated Packaging

Do not reuse container.

### 14. Transport Information





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<u><b>DOT</b></u>	NOT REGULATED
<u><b>TDG</b></u>	NOT REGULATED
<u><b>MEX</b></u>	NOT REGULATED
<u><b>ICAO (air)</b></u>	NOT REGULATED
<u><b>IATA</b></u>	NOT REGULATED
<u><b>IMDG</b></u>	NOT REGULATED

## **15. Regulatory Information**

### **15.1. International Inventories**

<b>TSCA</b>	Does not comply
<b>DSL/NDSL</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**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

### **15.2. US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<b>Chemical name</b>	<b>SARA 313 - Threshold Values %</b>
2-Butoxyethanol - 111-76-2	1.0
2-(2-Butoxyethoxy)ethanol - 112-34-5	1.0
Ethylene Glycol - 107-21-1	1.0

#### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic health hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No



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#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene Glycol 107-21-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

#### **15.3. US State Regulations**

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-Butoxyethanol 111-76-2	X	X	X
2-(2-Butoxyethoxy)ethanol 112-34-5	X	-	X
Ethylene Glycol 107-21-1	X	X	X

#### **16. Other information, including date of preparation of the last revision**

<b>NFPA</b>	Health Hazards 2	flammability 1	Instability 0	Physical and chemical properties -
<b>HMIS</b>	Health Hazards 2	flammability 1	Physical Hazards 0	Personal Protection X

Revision date 25-May-2015

#### **Revision note**

No information available

#### **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