

# **Safety Data Sheet**

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

Product name ANSULITE 3% AFFF (AFC-3MS)

## 1. Identification

1.1. Product Identifier

Product name ANSULITE 3% AFFF (AFC-3MS)

1.2. Other means of identification

Product code 442707 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 Tyco Fire Protection Products

One Stanton Street Marinette, WI 54143-2542 Telephone: 715-735-7411

Contact point Product Stewardship at 1-715-735-7411

E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

## 2. Hazards Identification

#### Classification

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

Serious eye damage/eye irritation - Category 1 Skin Sensitization - Category 1B

#### 2.2. Label Elements

# Signal Word

DANGER

# **Hazard Statements**

Causes serious eye damage May cause an allergic skin reaction





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#### **Precautionary Statements**

#### Prevention

Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace.

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 or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Disposal

Dispose of contents/container to an approved waste disposal plant.

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

Not Applicable.

#### 2.4. Other Information

# 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-%
2-(2-Butoxyethoxy)ethanol	112-34-5	10 - 30
Laurylamidopropyl betaine	4292-10-8	1 - 5
Caprylcaprilyl glucoside	68515-73-1	1 - 5
Polyfluorinated alkyl polyamide	Proprietary	1 - 5
Octylphenoxypolyethoxyethanol	9036-19-5	1 - 5
Polyfluorinated alkyl quaternary amine chloride	Proprietary	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



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#### 5.1. Suitable Extinguishing Media

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, Fluorinated 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.

## 6. Accidental release measures

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

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

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.



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# 8. Exposure Controls/Personal Protection

#### 8.1. Control Parameters

**Exposure guidelines** 

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
2-(2-Butoxyethoxy)ethanol	TWA: 10 ppm inhalable	-	-	-
112-34-5	fraction and vapor			

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

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

#### 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 Light yellow

Odor Threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7 - 8.5

Melting point/freezing point

Boiling point / boiling range
Flash Point
Evaporation Rate
Flammability (solid, gas)

No data available
No data available
No data available
No data available

Flammability limit in air

Upper flammability limit:
Lower flammability limit:
Vapor Pressure
Vapor Density
Specific gravity
Water Solubility
No data available



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AFFF (AFC-3MS)

Solubility in Other SolventsNo data availablePartition coefficientNo data availableAutoignition TemperatureNo data availableDecomposition TemperatureNo data availableKinematic viscosityNo data available

**VOC content (%)** 18.7575 **Density** 1.02

## 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 (NOx). Oxides of sulfur. Fluorinated oxides.

## 11. Toxicological Information

#### 11.1. Information on Likely Routes of Exposure

#### **Product information**

**Inhalation** No data available.

**Eye Contact** Corrosive to the eyes and may cause severe damage including blindness.

**Skin contact** May cause allergic skin reaction.

**Ingestion** No data available.

#### **Component Information**

**Acute Toxicity** 

Inhalation LC50
-



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Lourdomidopropul hotoing

Laurylamidopropyl betaine 4292-10-8	> 2000 mg/kg (Rat)	-	-
Polyfluorinated alkyl polyamide	>2000 mg/kg	>2000 mg/kg	>5.11 mg/l
Octylphenoxypolyethoxyethanol 9036-19-5	= 4190 mg/kg (Rat) = 1700 mg/kg (Rat)	-	-
Polyfluorinated alkyl quaternary amine chloride	>300 - <2000 mg/kg		-

## 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

Component Information								
Polyfluorinated alkyl quaternary amine chloride								
Method	species	Exposure Route	Effective dose	Exposure time	Results			
OECD Test No. 439: In Vitro Skin Irritation: Reconstructed Human Epidermis Test Method	EPISKIN™	in vitro			Non-irritant			

**Serious eye damage/eye irritation** Risk of serious damage to eyes.

Component Information								
Polyfluorinated alkyl polyamide								
Method	species	Exposure Route	Effective dose	Exposure time	Results			
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			Class 4 on a 1 to 8 scale according to a modified Kay and Calandra classification system. Mild eye irritation			

**Sensitization** May cause sensitization by skin contact.

Component Information			
Polyfluorinated alkyl polyamide			
Method	species	Exposure Route	Results
OECD Test No. 429: Skin Sensitisation:	mouse	dermal	sensitizing
Local Lymph Node Assay			

Polyfluorinated alkyl quaternary amine chloride						
Method	species	Exposure Route	Results			
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	mouse	dermal	sensitizing			

Component Information						
Polyfluorinated alkyl polyamide						
Method	species	Results				
OECD Test No. 473: In vitro Mammalian Chromosome	in vitro	Non-clastogenic to human lymphocytes in				
Aberration Test		vitro.				

CarcinogenicityNo information available.Reproductive ToxicityNo information available.STOT - Single ExposureNo information available.STOT - Repeated ExposureNo information available.Aspiration HazardNo information available.



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## 11.4. Numerical Measures of Toxicity - Product information

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

 ATEmix (oral)
 5101 mg/kg

 ATEmix (dermal)
 12061 mg/kg

 ATEmix (inhalation-dust/mist)
 129.5 mg/l

# 12. Ecological Information

## 12.1. Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol	EC50 (96h) > 100 mg/L	LC50 (96h) static = 1300 mg/L	EC50 (48h) > 100 mg/L Daphnia
112-34-5	Desmodesmus subspicatus	Lepomis macrochirus	magna EC50 (24h) = 2850 mg/L
			Daphnia magna
2-Methyl-2,4-pentanediol	-	LC50 (96h) static = 10700 mg/L	EC50 (48h) 2700 - 3700 mg/L
107-41-5		Pimephales promelas LC50 (96h)	Daphnia magna
		static = 10000 mg/L Lepomis	
		macrochirus LC50 (96h)	
		flow-through = 8690 mg/L	
		Pimephales promelas LC50 (96h)	
		flow-through 10500 - 11000 mg/L	
		Pimephales promelas	
t-Butanol	EC50 (72h) > 1000 mg/L	LC50 (96h) flow-through 6130 -	EC50 (48h) = 933 mg/L Daphnia
75-65-0	Desmodesmus subspicatus	6700 mg/L Pimephales promelas	magna EC50 (48h) Static 4607 -
			6577 mg/L Daphnia magna
Polyethylene Glycol	-	LC50 (24h) > 5000 mg/L Carassius	-
25322-68-3		auratus	
Sodium chloride	-	LC50 (96h) flow-through 4747 -	EC50 (48h) Static 340.7 - 469.2
7647-14-5			mg/L Daphnia magna EC50 (48h) =
		LC50 (96h) semi-static = 7050 mg/L	1000 mg/L Daphnia magna
		Pimephales promelas LC50 (96h)	
		static = 12946 mg/L Lepomis	
		macrochirus LC50 (96h) static 6020	
		- 7070 mg/L Pimephales promelas	
		LC50 (96h) flow-through 5560 -	
		6080 mg/L Lepomis macrochirus	
		LC50 (96h) static 6420 - 6700 mg/L	
	=======================================	Pimephales promelas	
4,4'-bis-(sulfostyryl)-biphenyl	EC50 (72h) = 10 mg/L	LC50 (96h) static = 76 mg/L	EC50 (48h) = 1000 mg/L Daphnia
disodium salt	Desmodesmus subspicatus EC50	Brachydanio rerio	magna
27344-41-8	(96h) 10.0 - 11.0 mg/L		
	Desmodesmus subspicatus		

Polyfluorinated alkyl polyamide						
Method	Species	Endpoint type	Effective dose	Exposure time	Results	
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LC50	>14 mg/l	96h	NOEC: 14 mg/L No toxic effects at saturation.	
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Algae	ErC50	>15 mg/l	72h	Growth rate >15, Yield 13. NOEC: 4.0 mg/L, LOEC: 8.5 mg/L	
OECD Test No. 202: Daphnia sp., Acute Immobilization Tes	1 -1	EC50	>20 mg/l	48h	NOEC: 20 mg/L No toxic effects at saturation.	

Polyfluorinated alkyl quaternary amine chloride						
Method	Species	Endpoint type	Effective dose	Exposure time	Results	



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OECD Test No. 211: Daphnia magna Reproduction Test	Daphnia magna	NOEC	5.38 mg/L	21 days	
OECD Test No. 202: Daphnia sp., Acute Immobilization Test		EC50	2.6 mg/L	48h	
OECD Test No. 210: Fish, Early-Life Stage Toxicity Test	Pimephales promelas	NOEC	11.8 mg/L	33 days	
OECD Test No. 203: Fish, Acute Toxicity Test	Cyprinus carpio	LC50	98 mg/L	96h	
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	EC50	788 mg/L	96h	

## 12.2. Persistence and Degradability

No information available.

## 12.3. Bioaccumulation

No information available.

#### 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

**DOT** NOT REGULATED

TDG NOT REGULATED

MEX NOT REGULATED

ICAO (air) NOT REGULATED

IATA NOT REGULATED

IMDG NOT REGULATED

# 15. Regulatory Information

15.1. International Inventories

TSCA Complies

DSL/NDSL Does not comply ENCS Does not comply IECSC Does not comply



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KECLDoes not complyPICCSDoes not complyAICSDoes not comply

#### 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

Chemical name	SARA 313 - Threshold Values %		
2-(2-Butoxyethoxy)ethanol - 112-34-5	1.0		
SARA 311/312 Hazard Categories			
Acute Health Hazard	Yes		
Chronic health hazard	No		
Fire Hazard	No		
Sudden Release of Pressure Hazard	No		
Reactive Hazard	No		

#### **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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## 15.3. US State Regulations

# California Proposition 65

This product contains the following Proposition 65 chemicals

	Chemical name	California Proposition 65
	Perfluorooctanoic acid - 335-67-1	Developmental Toxicity

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-(2-Butoxyethoxy)ethanol	X	-	X
112-34-5			

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



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NFPA Health Hazards 2 Flammability 0 Instability 0 Physical and chemical

properties -

HMIS Health Hazards 2 Flammability 0 Physical Hazards 0 Personal Protection X

Revision date 11-Jan-2019

Revision note SDS sections updated, 2, 11, 12.

#### **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**