

Safety Data Sheet

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

Product name ANSULITE AFC-3MS 3% AFFF CONCENTRATE

1. Identification

1.1. Product Identifier

Product name ANSULITE AFC-3MS 3% AFFF CONCENTRATE

1.2. Other means of identification

Product code 442683R Synonyms None

Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended useNo information available.

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 1-800-424-9300

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 contactWash 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



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5. Fire-fighting measures

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

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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.

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.



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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	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.

VentilationUse 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

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

pH 7 - 8.5

Melting point/freezing pointNo data availableBoiling point / boiling rangeNo data availableFlash PointNo data availableEvaporation RateNo data available



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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

VOC content (%) 18.766 **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 No data available

Inhalation No data available.

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



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Skin contact No data available.

Ingestion No data available.

Component Information Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
112-34-5			
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	_	<u>-</u>

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 quaternar	y 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 eve damage/eve irritation Risk of serious damage to eves.

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Component Information					
Polyfluorinated alkyl polyamic	de				
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:	mouse	dermal	sensitizing		
Local Lymph Node Assay			-		

Component Information	



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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.

11.4. Numerical Measures of Toxicity - Product information

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

ATEmix (oral) 5319 mg/kg
ATEmix (dermal) 12073 mg/kg
ATEmix (inhalation-dust/mist) 132.4 mg/l

12. Ecological Information

12.1. Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethan 112-34-5	ol EC50 (96h) > 100 mg/L Desmodesmus subspicatus	LC50 (96h) static = 1300 mg/L Lepomis macrochirus	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L
			Daphnia magna
2-Methyl-2,4-pentanedic	ol -	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	
1 Dutaral	FOFO (70h) 4000 mm/l	Pimephales promelas	FOFO (40h) 000 mm/l Damba's
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 -
Dobrethylene Chron		LCEO (24h) - E000 mg/L Caraccius	6577 mg/L Daphnia magna
Polyethylene Glycol 25322-68-3	-	LC50 (24h) > 5000 mg/L Carassius auratus	-
Sodium chloride		LC50 (96h) flow-through 4747 -	ECEO (49h) Statio 240 7 460 2
7647-14-5	-		EC50 (48h) Static 340.7 - 469.2 mg/L Daphnia magna EC50 (48h) =
7047-14-3		LC50 (96h) semi-static = 7050 mg/L	1000 mg/L Daphnia magna
		Pimephales promelas LC50 (96h)	1000 mg/L Dapmila magna
		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)-biphe		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		



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

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



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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
KECL Does not comply
PICCS Does not comply
AICS Does 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



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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

NFPA Health Hazards 2 Flammability 0 Instability 0 Physical and chemical

properties -

Health Hazards 2 Flammability 0 Physical Hazards 0 Personal Protection X

Revision date 13-Jan-2019

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