



Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910,1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 07/24/2019 Revision date: 07/24/2019

19 Version: 1,0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : PHOS-CHEK® 3% AFFF Milspec

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

Use of the substance/mixture : Fire extinguisher

For professional use only

1.3. Details of the supplier of the safety data sheet

Manufacturer

Perimeter Solutions LP, Solberg 1520 Brookfield Ave. Green Bay, WI 54313 T. 1-920-593-9445 Perimeter Solutions 10667 Jersey Blvd. Rancho Cucamonga CA, 91730 T. 1-800-682-3626 Perimeter Solutions Canada Ltd., 3060 Airport Rd., Kamloops B.C., V2B 7X2 T. 1-250-554-3530

1.4. Emergency telephone number

Emergency number : CHEMTREC 800-424-9300;

CANUTEC 613-996-6666 (transport only)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Eye Irrit. 2A H319

2.2. Label elements

GHS labelling

Hazard pictograms (GHS)



GHS07

Signal word (GHS) Warning

Hazard statements (GHS) # H319 - Causes serious eye irritation.

Precautionary statements (GHS) P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, face protection, protective clothing, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Diethylene glycol monobutyl ether	(CAS-No.) 112-34-5	10-30
Ethyl alcohol	(CAS-No.) 64-17-5	1-5
D-Glucopyranose, oligomeric, decyl octyl glycosides	(CAS-No.) 68515-73-1	1-5

^{*}Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation

persists.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible),

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Polyvalent powder extinguishers

(ABC powder).

Unsuitable extinguishing media : Tap water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, organic

compounds.

5.3. Advice for firefighters

Firefighting instructions Cool closed containers exposed to fire with water spray.

protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to

unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material),

then place in suitable container. Do not flush into surface water or sewer system. Wear

recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Ensure

adequate ventilation.

Hygiene measures

: Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep out of the reach of children. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethylene glycol	monobutyl ether (112-34-5)	
ACGIH	ACGIH TWA (ppm)	10 ppm (inhalable fraction and vapor)
D-Glucopyranose,	oligomeric, decyl octyl glycosides (68515-73-1)	
Not applicable		
Ethyl alcohol (64-1	7-5)	
ACGIH	ACGIH STEL (ppm)	1000 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation of the work station.

Hand protection

Wear suitable gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Environmental exposure controls

Avoid release to the environment.

Other information

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or

smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Transparent.

Colour : yellowish

Odour : Characteristic

Odour threshold : No data available

pH : 7.6 - 8.6

Melting point: No data availableFreezing point: No data availableBoiling point: No data available

Flash point : > 199.4 °F Non flammable

Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Flammability (solid, gas) : Not flammable Vapour pressure : No data available Relative vapour density at 20 °C : No data available

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According to the Hazard Communication Standard (CFR29 1910,1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Relative density : No data available

Density : 1002 - 1042 kg/m³ (@ 68 F)
Solubility : Material highly soluble in water

Partition coefficient n-octanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 3 cP @ 68 °F

Explosive limits Lower explosive limit (LEL): No data available

Upper explosive limit (UEL): No data available

Explosive properties No data available
Oxidising properties No data available

9.2. Other Information

Refractive index 1.367

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Sunlight. Incompatible materials.

10.5. Incompatible materials

Strong acids. Alkalis. Strong bases.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, organic compounds,

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Diethylene glycol monobutyl eth	er (112-34-5)
LD50 oral rat	5660 mg/kg
LD50 dermal rabbit	2700 mg/kg
ATE CA (oral)	5660 mg/kg bodyweight
ATE CA (Dermal)	2700 mg/kg bodyweight

Skin corrosion/irritation : Not classified. pH: 7.6 - 8.6

Serious eye damage/irritation

Causes serious eye irritation.

pH: 7.6 - 8.6 Not classified.

Respiratory or skin sensitisation 2 Not classified.

Germ cell mutagenicity 2 Not classified.

Carcinogenicity 4 Not classified.

Ethyl alcohol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Aspiration hazard Not classified.

Symptoms/effects after inhalation

May cause irritation to the respiratory tract.

Symptoms/effects after skin contact

May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Symptoms/effects after ingestion

PHOS-CHEK® 3% AFFF Milspec		TO COLUMN	
Persistence and degradability	Not established.		

12.3. Bioaccumulative potential

PHOS-CHEK® 3% AFFF Milspec	
Partition coefficient n-octanol/water	Not applicable
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not applicable

SECTION 15: Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Alcohols, C9-11, branched and linear, ethoxylated, sulfates, sodium salts

CAS-No. 160901-28-0

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories except for:

Alcohols, C9-11, branched and linear, ethoxylated, sulfates, sodium salts

CAS-No. 160901-28-0

15.2. International regulations

No additional information available

15.3. US State regulations

MARNING:

This product can expose you to Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Revision date : 07/24/2019
Other information : None.

Prepared by Nexreg Compliance Inc.

www.Nexreg.com

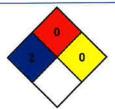


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NFPA health hazard : 2
NFPA fire hazard : 0
NFPA reactivity : 0



Hazard Rating

Health : 2 Moderate Hazard
Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard

SDS HazCom 2012 - WHMIS 2015 (NexReg)

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<u>MATERIAL SAFETY</u> <u>DATA SHEET</u>

CHEMGUARD 3% AFFF C-301MS

Revision Date: 1/25/2006

1. PRODUCT IDENTIFICATION

Chemical Family: Surfactant mixture; fire fighting foam concentrate

Product name: Chemguard 3% AFFF C-301MS

Aqueous Film Forming Foam

Manufacturer: Chemguard, Inc.

204 South 6th Ave. Mansfield, TX 76063

emergency phone: 817-473-9964

2. COMPOSITION / INFORMATION ON INGREDIENTS

		ACGI	H/PPM	OSHA/PP	M
CAS NO.	Common Name	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>% by wt</u>
7732-18-5	water				70%-80%
112-34-5	diethylene glycol mono butyl ether	N/A	N/A	N/A	6 - 8%
7487-88-9	magnesium sulfate	N/A	N/A	N/A	0.5%-1.5%
64-02-8	ethylenediaminetetraacetic acid				0.5%-1.5%
	tetrasodium salt				
propriatary	proprietary hydrocarbon surfactant	N/A	N/A	N/A	proprietary
propriatary	proprietary fluorosurfactant	N/A	N/A	N/A	proprietary

3. HAZARDS IDENTIFICATION

Routes of entry: Dermal, inhalation and ingestion

Potential Health Effects: May cause skin and eye irritation.

Carcinogenicity: Not a carcinogen.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Call a physician.

Inhalation: Remove to fresh air.

Skin: Rinse with water. Wash with soap and water. Contaminated clothing should be washed

before re-use.

Eyes: Rinse with water. Call a physician.

5. FIRE FIGHTING MEASURES

Flash Point:

Flammable Limits in air (lower % by volume):

Flammable Limits in air (upper % by volume):

not evaluated

not evaluated

not evaluated

General Hazards: None known.

Fire Fighting Equipment: Self contained breathing apparatus

Fire Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemical, Halon

Fire and Explosion Hazards: Decomposition products may be toxic.

Hazardous Combustion Products: various oxides of carbon, sulfur and nitrogen

6. ACCIDENTAL RELEASE

Contain spills. Vacuum or pump into storage containers, absorb smaller quantities with absorbent materials, and dispose of properly. Washing area with water will create large amounts of foam.

Dispose of released and contained material in accordance with local, state, and federal regulations. Release to local waste treatment plant only with permission.

7. HANDLING AND STORAGE

Store in original container, or appropriate end-use device. Store at temperatures of 35 - 120 degrees F. If the material freezes, it may be thawed without loss of performance.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection: Wear side-shield safety glasses.

Skin Protection: Wear latex gloves.

Respiratory Protection: Use organic vapor respirator if needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 212°F
Melting Point: 27°F
Specific Gravity: 1.079
Vapor Pressure (mm Hg): N/D
pH 7.0 - 8.5

Flash Point (PMCC): no flash to boiling

Vapor Density (air = 1) N/DSolubility in water: 100%

Appearance: clear yellow liquid
Odor: faint chemical odor

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong oxidizers

Hazardous Polymerization: Will not occur.

Decomposition Products: Oxides of nitrogen, sulfur, carbon.

11. TOXICOLOGICAL INFORMATION

Eye Irritation: (Rabbits) mild irritant Skin Irritation: (Rabbits) minimal irritant

Inhalation Toxicity: not evaluated Sensitization: not evaluated Teratology: not evaluated Mutagenicity: not evaluated Reproduction: not evaluated Acute Oral Effects (Rats): not evaluated

12. ECOLOGICAL INFORMATION

CONCENTRATE SOLUTION AS USED

Chemical Oxygen Demand:260,544 mg/l7,816 mg/lBiological Oxygen Demand (20 day):330,890 mg/l9,927 mg/lBiodegradability (B.O.D./C.O.D.)99.90%99.90%Total Organic Carbon:not determinednot determinedLC50 96 day (fundulus heteroclitus)1134 mg/l37,800 mg/l

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state, and federal regulations. Discharge to waste treatment plants only with permission. Anti-foam agents may be used to reduce foaming in waste streams.

14. TRANSPORTATION INFORMATION

Department of Transportation proper shipping name: not regulated

Hazard class: None UN Number: None

15. REGULATORY INFORMATION

All ingredients are on the **TSCA** inventory.

No components are reportable under SARA Title III, sec. 313

No components are priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1)

Priority Pollutant List (40 CFR 401.15).

No components are reportable under CERCLA.

16. OTHER INFORMATION

NFPA Hazard Ratings		HMIS Identification System	
1	Health Hazard Rating	1	
0	Flammability Rating	0	
0	Instability/Reactivity Rating	0	

Change Log:

Revision 2, 1/25/06 - Revision date changed.



Safety Data Sheet

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

Product name Ansulite AFC-5A 3% AFFF

1. Identification

1.1. Product Identifier

Product name Ansulite AFC-5A 3% AFFF

1.2. Other means of identification

Product code 068123 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 800-424-9300 or 703-527-3887

2. Hazards Identification

Classification

OSHA Regulatory Status

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

Serious eye damage/eye irritation - Category 2

2.2. Label Elements

Signal Word WARNING

hazard statements

Causes serious eye irritation



Precautionary Statements



Product code 068123

Product name Ansulite AFC-5A / 3% AFFF

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Prevention

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

2.4. OTHER INFORMATION

Unknown Acute Toxicity 5.8066% 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-%
2-(2-Butoxyethoxy)ethanol	112-34-5	10 - 30
Perfluoro Telomer	Proprietary	1 - 5
Anionic Fluorinated Surfactant	Proprietary	1 - 5
Octylphenoxypolyethoxyethanol	9036-19-5	1 - 5
Lauryl Imino Propionate, Sodium Salt	14960-06-6	1 - 5

4. First aid measures

4.1. Description of first aid measures

Eye ContactRinse 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

5. Fire-fighting measures



Product code 068123 / Product name Ansulite AFC-5A / PAGE 3/8 3% AFFF

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

Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur

Products

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.

8. Exposure Controls/Personal Protection



Product code 068123 / Product name Ansulite AFC-5A / PAGE 4 / 8

3% AFFF

8.1. Control Parameters

Exposure guidelines

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

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

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

pH 7

Melting point/freezing pointNo data availableBoiling point / boiling range> 100 °C / 212 °FFlash Point> 100 °C / > 212 °FEvaporation RateNo data availableflammability (solid, gas)No data available

flammability (solid, gas) Flammability limit in air

Upper flammability limit:
Lower flammability limit:
Vapor Pressure
Vapor Density
No data available



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3% AFFF

Water SolubilityNo data availableSolubility in Other SolventsNo data availablePartition coefficientNo data availableAutoignition TemperatureNo data availableDecomposition TemperatureNo data availableKinematic viscosityNo data available

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 no data available.Skin contact no data available.

INGESTION no data available.

Acute Toxicity

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
112-34-5			



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Anionic Fluorinated Surfactant	> 10,000 ppm (Rat)	-	-
Octylphenoxypolyethoxyethanol 9036-19-5	= 4190 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

sensitizationNo information available.Germ Cell MutagenicityNo information availablecarcinogenicityNo 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 mg/kg

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-(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
2-Methyl-2,4-pentanediol 107-41-5	-	LC50 96 h 10500 - 11000 mg/L Pimephales promelas flow-through LC50 96 h = 10000 mg/L Lepomis macrochirus static LC50 96 h = 8690 mg/L Pimephales promelas flow-through LC50 96 h = 10700 mg/L Pimephales promelas static	EC50 48 h 2700 - 3700 mg/L Daphnia magna
t-Butanol 75-65-0	EC50 72 h > 1000 mg/L Desmodesmus subspicatus	LC50 96 h 6130 - 6700 mg/L Pimephales promelas flow-through	EC50 48 h = 933 mg/L Daphnia magna EC50 48 h 4607 - 6577 mg/L Daphnia magna Static
Polyethylene Glycol 25322-68-3	-	LC50 24 h > 5000 mg/L Carassius auratus	-

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Other Adverse Effects

No information available



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3% AFFF

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 Complies

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

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 No Chronic health hazard No



Product code 068123

Product name Ansulite AFC-5A / 3% AFFF

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0,07411

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 does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-(2-Butoxyethoxy)ethanol 112-34-5	Х	-	Х
2-Methyl-2,4-pentanediol 107-41-5	X	X	X
t-Butanol 75-65-0	X	X	X

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

NFPA Health Hazards 0 flammability 1 Instability 0 Physical and chemical properties
HMIS Health Hazards 0 flammability 1 Physical Hazards 0 Personal Protection X

Revision date 27-Jul-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