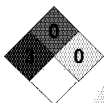


Phos-Chek 3% AFFF MS - [AQUAFILM AF-3MS]

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** Phos-Chek 3% AFFF MS - [AQUAFILM AF-3MS]
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
 Relevant uses: Fire-extinguishing. For professional use only.
 Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:** AUXQUIMIA, S.A.U.
 Polígono Industrial de Baiña, parcela 23
 33682 Baiña (Mieres) - Asturias - Spain
 Phone.: +34 985 242 945 / +34 985 242 946 -
 Fax: +34 985 253 809
 auxquimia@icl-group.com
 www.auxquimia.com
 +34 985 242 945 / +34 985 242 946
- 1.4 Emergency telephone number:**

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
- NFPA:**
 Health Hazards: 3
 Flammability Hazards: 0
 Instability Hazards: 0
 Special Hazards: Non-applicable
- CLP Regulation (EC) n° 1272/2008:**
 Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.
 Eye Dam. 1: Serious eye damage, Category 1, H318
- 2.2 Label elements:**
- NFPA:**
- 
- CLP Regulation (EC) n° 1272/2008:**
- Danger**
- 
- Hazard statements:**
 Eye Dam. 1: H318 - Causes serious eye damage
- 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 CENTER or doctor/physician
- Supplementary information:**
 EUH208: Contains Amphoteric hydrocarbon surfactant 6608110000. May produce an allergic reaction
- Substances that contribute to the classification**
 Non-ionic hydrocarbon surfactant 6607700000; Anionic hydrocarbon surfactant 6201310000; Anionic hydrocarbon surfactant 6608700000
- 2.3 Other hazards:**
 Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- CONTINUED ON NEXT PAGE -

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution of tensoactives

Components:

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 112-34-5 EC: 203-961-6 Index: 603-096-00-8 REACH: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	ATP CLP00  15 - <20 %
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	Mixture of fluorosurfactants Regulation 1272/2008	Not classified 1 - <3 %
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	Non-ionic hydrocarbon surfactant 6607700000 Regulation 1272/2008 Eye Dam. 1: H318 - Danger	Self-classified  1 - <3 %
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	Anionic hydrocarbon surfactant 6201310000 Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	Self-classified   1 - <3 %
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	Anionic hydrocarbon surfactant 6608700000 Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	Self-classified  1 - <3 %
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	Amphoteric hydrocarbon surfactant 6608110000 Regulation 1272/2008 Eye Irrit. 2: H319; Skin Sens. 1: H317 - Warning	Self-classified  0,1 - <1 %
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	Anionic hydrocarbon surfactant 6200710000 Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	Self-classified  0,1 - <1 %
CAS: 111-77-3 EC: 203-906-6 Index: 603-107-00-6 REACH: 01-2119475100-52-XXXX	2-(2-methoxyethoxy)ethanol Regulation 1272/2008 Repr. 2: H361d - Warning	ATP CLP00  <0,1 %
CAS: 67-56-1 EC: 200-659-6 Index: 603-001-00-X REACH: 01-2119433307-44-XXXX	Methanol Regulation 1272/2008 Acute Tox. 3: H301+H311+H331; Flam. Liq. 2: H225; STOT SE 1: H370 - Danger	ATP CLP00    <0,1 %

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as dangerous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

This product is not classified as dangerous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

- CONTINUED ON NEXT PAGE -

Phos-Chek 3% AFFF MS - [AQUAFILM AF-3MS]**SECTION 4: FIRST AID MEASURES (continue)****By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use, containing flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid spillage into an aqueous medium as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into an aqueous medium notify the relevant authority.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling:**

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

- CONTINUED ON NEXT PAGE -

SECTION 7: HANDLING AND STORAGE (continue)

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid projections and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 0 °C

Maximum Temp.: 50 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Identification		Environmental limits	
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	IOELV (8h)	10 ppm	67,5 mg/m ³
	IOELV (STEL)	15 ppm	101,2 mg/m ³
	Year	2014	
2-(2-methoxyethoxy)ethanol CAS: 111-77-3 EC: 203-906-6	IOELV (8h)	10 ppm	50,1 mg/m ³
	IOELV (STEL)		
	Year	2014	
Methanol CAS: 67-56-1 EC: 200-659-6	IOELV (8h)	200 ppm	260 mg/m ³
	IOELV (STEL)		
	Year	2014	

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	20 mg/kg	Non-applicable
	Inhalation	Non-applicable	101,2 mg/m ³	67,5 mg/m ³	67,5 mg/m ³
Non-ionic hydrocarbon surfactant 6607700000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	595000 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	420 mg/m ³	Non-applicable
Anionic hydrocarbon surfactant 6201310000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4060 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	285 mg/m ³	Non-applicable
Anionic hydrocarbon surfactant 6608700000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4060 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	285 mg/m ³	Non-applicable
2-(2-methoxyethoxy)ethanol CAS: 111-77-3 EC: 203-906-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,53 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	50,1 mg/m ³	Non-applicable
Methanol CAS: 67-56-1 EC: 200-659-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	40 mg/kg	Non-applicable	40 mg/kg	Non-applicable
	Inhalation	260 mg/m ³	260 mg/m ³	260 mg/m ³	260 mg/m ³

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	Oral	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	10 mg/kg	Non-applicable
	Inhalation	Non-applicable	50,6 mg/m ³	34 mg/m ³	34 mg/m ³
Non-ionic hydrocarbon surfactant 6607700000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	35,7 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	357000 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	124 mg/m ³	Non-applicable
Anionic hydrocarbon surfactant 6201310000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	24 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2440 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	85 mg/m ³	Non-applicable
Anionic hydrocarbon surfactant 6608700000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	24 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2440 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	85 mg/m ³	Non-applicable
2-(2-methoxyethoxy)ethanol CAS: 111-77-3 EC: 203-906-6	Oral	Non-applicable	Non-applicable	1,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,27 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	25 mg/m ³	Non-applicable
Methanol CAS: 67-56-1 EC: 200-659-6	Oral	8 mg/kg	Non-applicable	8 mg/kg	Non-applicable
	Dermal	8 mg/kg	Non-applicable	8 mg/kg	Non-applicable
	Inhalation	50 mg/m ³	50 mg/m ³	50 mg/m ³	50 mg/m ³

PNEC:

Identification				
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	STP	200 mg/L	Fresh water	1 mg/L
	Soil	0,4 mg/kg	Marine water	0,1 mg/L
	Intermittent	3,9 mg/L	Sediment (Fresh water)	4 mg/kg
	Oral	56 g/kg	Sediment (Marine water)	0,4 mg/kg
Non-ionic hydrocarbon surfactant 6607700000 CAS: Non-applicable EC: Non-applicable	STP	560 mg/L	Fresh water	0,176 mg/L
	Soil	0,654 mg/kg	Marine water	0,0176 mg/L
	Intermittent	0,27 mg/L	Sediment (Fresh water)	1,516 mg/kg
	Oral	111,11 g/kg	Sediment (Marine water)	0,152 mg/kg
Anionic hydrocarbon surfactant 6201310000 CAS: Non-applicable EC: Non-applicable	STP	1,35 mg/L	Fresh water	0,095 mg/L
	Soil	0,2445 mg/kg	Marine water	0,0095 mg/L
	Intermittent	0,086 mg/L	Sediment (Fresh water)	1,5 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,15 mg/kg
Anionic hydrocarbon surfactant 6608700000 CAS: Non-applicable EC: Non-applicable	STP	1,35 mg/L	Fresh water	0,1357 mg/L
	Soil	0,22 mg/kg	Marine water	0,01357 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	1,5 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,15 mg/kg
2-(2-methoxyethoxy)ethanol CAS: 111-77-3 EC: 203-906-6	STP	10000 mg/L	Fresh water	12 mg/L
	Soil	2,44 mg/kg	Marine water	1,2 mg/L
	Intermittent	12 mg/L	Sediment (Fresh water)	44,4 mg/kg
	Oral	90 g/kg	Sediment (Marine water)	0,44 mg/kg
Methanol CAS: 67-56-1 EC: 200-659-6	STP	100 mg/L	Fresh water	154 mg/L
	Soil	23,5 mg/kg	Marine water	15,4 mg/L
	Intermittent	1540 mg/L	Sediment (Fresh water)	570,4 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

If product is used at the concentration dosing conditions specified in the relevant instructions for use (section 15), personal protective equipment described in section 8.2 for UNDILUTED products will not be required.

Safe handling recommendations for undiluted product:

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves	 CAT I	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	Replace the gloves at any sign of deterioration.

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against liquid splash	 CAT II	EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	 CAT I	EN ISO 13688:2013	For professional use only.
	Anti-slip work shoes	 CAT II	EN ISO 20347:2012 EN ISO 20344:2011	None

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:

Liquid

Appearance:

Transparent

Color:

Yellowish

Odor:

Characteristic

Volatility:

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	1000 - 1040 kg/m ³
Relative density at 20 °C:	Non-applicable *
Dynamic viscosity at 20 °C:	4 cP
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	7 - 8,5
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Highly water-soluble
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

Flammability:

Flash Point:	Non Flammable (>60 °C)
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

9.2 Other information:

Surface tension at 20 °C:	Non-applicable *
Refraction index:	1,367

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Not applicable	Not applicable

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion:

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

B- Inhalation:

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes:

- Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilizing effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensibilizing effects. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous as a result of a single exposure. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification		Acute toxicity	Genus
2-(2-methoxyethoxy)ethanol	LD50 oral	7128 mg/kg	Rat
CAS: 111-77-3	LD50 dermal	9404 mg/kg	Rabbit
EC: 203-906-6	LC50 inhalation	Non-applicable	
Anionic hydrocarbon surfactant 6201310000	LD50 oral	580 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	Non-applicable	
EC: Non-applicable	LC50 inhalation	Non-applicable	
Methanol	LD50 oral	100 mg/kg	Rat
CAS: 67-56-1	LD50 dermal	300 mg/kg	Rabbit

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continue)

Identification	Acute toxicity	Genus
EC: 200-659-6	LC50 inhalation 3 mg/L (4 h)	Rat

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Identification	Acute toxicity	Specie	Genus
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	LC50 1300 mg/L (96 h) EC50 2850 mg/L (24 h) EC50 53 mg/L (192 h)	Lepomis macrochirus Daphnia magna Microcystis aeruginosa	Fish Crustacean Algae
Non-ionic hydrocarbon surfactant 6607700000 CAS: Non-applicable EC: Non-applicable	LC50 126 mg/L (96 h) EC50 151 mg/L (48 h) EC50 27 mg/L (72 h)	Brachydanio rerio Acartia tonsa Scenedesmus subspicatus	Fish Crustacean Algae
Anionic hydrocarbon surfactant 6201310000 CAS: Non-applicable EC: Non-applicable	LC50 177 mg/L (96 h) EC50 Non-applicable EC50 21,5 mg/L (72 h)	Brachydanio rerio Pseudokirchneriella subcapitata	Fish Algae
2-(2-methoxyethoxy)ethanol CAS: 111-77-3 EC: 203-906-6	LC50 5741 mg/L (96 h) EC50 1192 mg/L (48 h) EC50 Non-applicable	Pimephales promelas Daphnia magna	Fish Crustacean
Methanol CAS: 67-56-1 EC: 200-659-6	LC50 15400 mg/L (96 h) EC50 12000 mg/L (96 h) EC50 530 mg/L (168 h)	Lepomis macrochirus Nitrocras spinipes Microcystis aeruginosa	Fish Crustacean Algae

12.2 Persistence and degradability:

Identification	Degradability	Biodegradability
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	BOD5 0.25 g O2/g COD 2.08 g O2/g BOD5/COD 0.12	Concentration 100 mg/L Period 28 days % Biodegradable 92 %
Non-ionic hydrocarbon surfactant 6607700000 CAS: Non-applicable EC: Non-applicable	BOD5 Non-applicable COD Non-applicable BOD5/COD Non-applicable	Concentration Non-applicable Period 28 days % Biodegradable 100 %
Anionic hydrocarbon surfactant 6201310000 CAS: Non-applicable EC: Non-applicable	BOD5 Non-applicable COD Non-applicable BOD5/COD Non-applicable	Concentration 2 mg/L Period 30 days % Biodegradable 98 %
2-(2-methoxyethoxy)ethanol CAS: 111-77-3 EC: 203-906-6	BOD5 Non-applicable COD Non-applicable BOD5/COD 0.07	Concentration Non-applicable Period 28 days % Biodegradable 100 %
Methanol CAS: 67-56-1 EC: 200-659-6	BOD5 Non-applicable COD 1.42 g O2/g BOD5/COD Non-applicable	Concentration 100 mg/L Period 14 days % Biodegradable 92 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	BCF 0,46 Pow Log 0,56 Potential Low
2-(2-methoxyethoxy)ethanol CAS: 111-77-3 EC: 203-906-6	BCF 3 Pow Log -1,18 Potential Low
Methanol CAS: 67-56-1 EC: 200-659-6	BCF 3 Pow Log -0,77 Potential Low

12.4 Mobility in soil:

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SECTION 12: ECOLOGICAL INFORMATION (continue)

Identification	Absorption/desorption			Volatility
2-(2-butoxyethoxy)ethanol	Koc	48	Henry	7,2E-9 Pa·m ³ /mol
CAS: 112-34-5	Conclusion	Very High	Dry soil	No
EC: 203-961-6	Surface tension	33950 N/m (25 °C)	Moist soil	No
Non-ionic hydrocarbon surfactant 6607700000	Koc	50	Henry	1,2E-8 Pa·m ³ /mol
CAS: Non-applicable	Conclusion	Very High	Dry soil	No
EC: Non-applicable	Surface tension	Non-applicable	Moist soil	No
Anionic hydrocarbon surfactant 6201310000	Koc	150	Henry	1,06E-2 Pa·m ³ /mol
CAS: Non-applicable	Conclusion	Very High	Dry soil	Non-applicable
EC: Non-applicable	Surface tension	33200 N/m (24 °C)	Moist soil	Non-applicable
2-(2-methoxyethoxy)ethanol	Koc	1	Henry	1,621E-6 Pa·m ³ /mol
CAS: 111-77-3	Conclusion	Very High	Dry soil	Non-applicable
EC: 203-906-6	Surface tension	35900 N/m (25 °C)	Moist soil	No
Methanol	Koc	Non-applicable	Henry	Non-applicable
CAS: 67-56-1	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 200-659-6	Surface tension	23550 N/m (25 °C)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 05 08*	Discarded organic chemicals consisting of or containing hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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SECTION 15: REGULATORY INFORMATION (continue)

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Relevant instructions for use:

This product is intended for the production of foam for fire extinguishing purposes. It should be diluted at 3% in water and used with appropriate foam-generating equipment.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

Modifications related to the previous security card which concerns the ways of managing risks. :

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) n° 1272/2008:

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

Acute Tox. 4: H302 - Harmful if swallowed

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 2: H225 - Highly flammable liquid and vapour

Repr. 2: H361d - Suspected of damaging the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

STOT SE 1: H370 - Causes damage to organs

Classification procedure:

Eye Dam. 1: Calculation method

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

- CONTINUED ON NEXT PAGE -

Phos-Chek 3% AFFF MS - [AQUAFILM AF-3MS]**SECTION 16: OTHER INFORMATION (continue)**

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- CL50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol–water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -