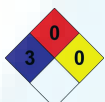



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** H-930
- 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.  
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  
info@auxquimia.com  
www.auxquimia.com
- 1.4 Emergency telephone number:** +34 985 242 945 / +34 985 242 946

## SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
- NFPA 704:**  
Health Hazards: 3  
Flammability Hazards: 0  
Instability Hazards: 0  
Special Hazards: Non-applicable
- Directive 67/548/EC and Directive 1999/45/EC:**  
This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).  
Xi: R41 - Risk of serious damage to eyes
- 2.2 Label elements:**
- NFPA 704:**
- 
- Directive 67/548/EC and Directive 1999/45/EC:**  
In accordance with the legislation, the elements on the label are as follows:
- 
- R Phrases:**  
R41: Risk of serious damage to eyes
- S Phrases:**  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S39: Wear eye/face protection
- Supplementary information:**  
Non-applicable
- 2.3 Other hazards:**  
Non-applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical description:** Aqueous solution of tensoactives

**Components:**

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

- CONTINUED ON NEXT PAGE -

**H-930**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)**

Identification	Chemical name/Classification	Concentration
CAS: 112-34-5 EC: 203-961-6 Index: 603-096-00-8 REACH:01-2119475104-44-XXXX	<b>2-(2-butoxiethoxy)etanol</b> ATP CLP00	<b>20 - &lt;30 %</b>
	Directive 67/548/EC Xi: R36 Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH:Non-applicable	<b>Anionic hydrocarbon surfactant 6608733000</b> Not classified	<b>5 - &lt;10 %</b>
	Directive 67/548/EC Regulation 1272/2008	
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH:Non-applicable	<b>Anionic hydrocarbon surfactant 7500300000</b> Self-classified	<b>1 - &lt;5 %</b>
	Directive 67/548/EC Xi: R38, R41 Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH:Non-applicable	<b>Amphoteric hydrocarbon surfactant 6201200000</b> Self-classified	<b>1 - &lt;5 %</b>
	Directive 67/548/EC Xi: R41 Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH:Non-applicable	<b>Anionic hydrocarbon surfactant 6200700000</b> Self-classified	<b>1 - &lt;5 %</b>
	Directive 67/548/EC Xi: R38, R41 Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH:Non-applicable	<b>Anionic hydrocarbon surfactant 6608700000</b> Self-classified	<b>1 - &lt;5 %</b>
	Directive 67/548/EC Xi: R38, R41 Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH:Non-applicable	<b>Fatty alcohol</b> Self-classified	<b>1 - &lt;5 %</b>
	Directive 67/548/EC N: R50; Xi: R36 Regulation 1272/2008 Aquatic Acute 1: H400; Eye Irrit. 2: H319 - Warning	
CAS: 111-76-2 EC: 203-905-0 Index: 603-014-00-0 REACH:01-2119475108-36-XXXX	<b>2-butoxyethanol</b> ATP CLP00	<b>0,1 - &lt;1 %</b>
	Directive 67/548/EC Xi: R36/38; Xn: R20/21/22 Regulation 1272/2008 Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	

To obtain more information on the risk of the substances consult sections 8, 11, 12 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 MSDS 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 luke warm 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 MSDS of the product.

**By consumption:**

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

- CONTINUED ON NEXT PAGE -

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. 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 subproducts 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. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

### 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

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on 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.: -15 °C

Maximum Temp.: 50 °C

#### B.- General conditions for storage

- CONTINUED ON NEXT PAGE -

**SECTION 7: HANDLING AND STORAGE (continue)**

Avoid sources of heat, radiation, static electricity and contact with food

**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		
	IOELV (8h)	IOELV (STEL)	Year
2-(2-butoxiethoxy)etanol CAS: 112-34-5 EC: 203-961-6	10 ppm	67,5 mg/m <sup>3</sup>	2012
	15 ppm	101,2 mg/m <sup>3</sup>	
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	20 ppm	98 mg/m <sup>3</sup>	2012
	50 ppm	246 mg/m <sup>3</sup>	

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2-(2-butoxiethoxy)etanol 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 <sup>3</sup>	67,5 mg/m <sup>3</sup>	67,5 mg/m <sup>3</sup>
Anionic hydrocarbon surfactant 7500300000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2158,33 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	152,22 mg/m <sup>3</sup>	Non-applicable
Anionic hydrocarbon surfactant 6200700000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2750 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	175 mg/m <sup>3</sup>	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 <sup>3</sup>	Non-applicable
Fatty alcohol CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	10 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	35,3 mg/m <sup>3</sup>	Non-applicable
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	89 mg/kg	Non-applicable	75 mg/kg	Non-applicable
	Inhalation	663 mg/m <sup>3</sup>	246 mg/m <sup>3</sup>	98 mg/m <sup>3</sup>	Non-applicable

**DNEL (Population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2-(2-butoxiethoxy)etanol 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 <sup>3</sup>	34 mg/m <sup>3</sup>	34 mg/m <sup>3</sup>
Anionic hydrocarbon surfactant 7500300000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	12,95 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1295 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	45,04 mg/m <sup>3</sup>	Non-applicable
Anionic hydrocarbon surfactant 6200700000 CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	15 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1650 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	52 mg/m <sup>3</sup>	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 <sup>3</sup>	Non-applicable

- CONTINUED ON NEXT PAGE -

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Fatty alcohol CAS: Non-applicable EC: Non-applicable	Oral	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8,696 mg/m <sup>3</sup>	Non-applicable
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	Oral	13,4 mg/kg	Non-applicable	3,2 mg/kg	Non-applicable
	Dermal	44,5 mg/kg	Non-applicable	38 mg/kg	Non-applicable
	Inhalation	426 mg/m <sup>3</sup>	123 mg/m <sup>3</sup>	49 mg/m <sup>3</sup>	Non-applicable

**PNEC:**

Identification					
2-(2-butoxiethoxy)etanol 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	
Anionic hydrocarbon surfactant 7500300000 CAS: Non-applicable EC: Non-applicable	STP	4 mg/L	Fresh water	0,042 mg/L	
	Soil	0,0061 mg/kg	Marine water	0,0042 mg/L	
	Intermittent	0,042 mg/L	Sediment (Fresh water)	2,025 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,2025 mg/kg	
Anionic hydrocarbon surfactant 6200700000 CAS: Non-applicable EC: Non-applicable	STP	10000 mg/L	Fresh water	0,24 mg/L	
	Soil	0,946 mg/kg	Marine water	0,024 mg/L	
	Intermittent	0,071 mg/L	Sediment (Fresh water)	5,45 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,545 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	
Fatty alcohol CAS: Non-applicable EC: Non-applicable	STP	4 mg/L	Fresh water	0,0066 mg/L	
	Soil	Non-applicable	Marine water	0,00066 mg/L	
	Intermittent	0,007 mg/L	Sediment (Fresh water)	Non-applicable	
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable	
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	STP	463 mg/L	Fresh water	8,8 mg/L	
	Soil	3,13 mg/kg	Marine water	0,88 mg/L	
	Intermittent	9,1 mg/L	Sediment (Fresh water)	34,6 mg/kg	
	Oral	20 g/kg	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:



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**

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



- CONTINUED ON NEXT PAGE -

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**



D.- Ocular and facial protection

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against liquid splash		EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN 165:2005	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing		EN 340:2003	For professional use only.
	Anti-slip work shoes		EN ISO 20347:2004/A1:2007 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:**

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: 1040 - 1080 kg/m<sup>3</sup>  
Relative density at 20 °C: Non-applicable \*  
Dynamic viscosity at 20 °C: 20 cP  
Kinematic viscosity at 20 °C: Non-applicable \*  
Kinematic viscosity at 40 °C: Non-applicable \*  
Concentration: Non-applicable \*  
pH: 7,5 - 8

\*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)

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 property:	Highly water-soluble
Decomposition temperature:	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:	Non-applicable *

\*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 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	Not applicable	Not applicable	Not applicable

### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	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 (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

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:

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.

- CONTINUED ON NEXT PAGE -

## SECTION 11: TOXICOLOGICAL INFORMATION (continue)

### B- Inhalation:

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.

### C- Contact with the skin and the eyes:

Produces serious eye damage after contact.

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

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.

### E- Sensitizing effects:

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

### G- 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.

### 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
	Route	Dose	
Anionic hydrocarbon surfactant 7500300000 CAS: Non-applicable EC: Non-applicable	LD50 oral	6300 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Anionic hydrocarbon surfactant 6200700000 CAS: Non-applicable EC: Non-applicable	LD50 oral	4100 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	LD50 oral	500 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	Rat

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the mixture itself is not available

### 12.1 Toxicity:

Identification	Acute toxicity		Specie	Genus
	Route	Dose		
2-(2-butoxyethoxy)etanol CAS: 112-34-5 EC: 203-961-6	LC50	1300 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	2850 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	53 mg/L (192 h)	Microcystis aeruginosa	Alga
Anionic hydrocarbon surfactant 7500300000 CAS: Non-applicable EC: Non-applicable	LC50	12,2 mg/L (96 h)		
	EC50	4,53 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Anionic hydrocarbon surfactant 6200700000 CAS: Non-applicable EC: Non-applicable	LC50	7,1 mg/L (96 h)	Danio rerio	Fish
	EC50	7,4 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	27 mg/L (72 h)	Scenedesmus subspicatus	Alga
Fatty alcohol CAS: Non-applicable EC: Non-applicable	LC50	1,01 mg/L (96 h)	Pimephales promelas	Fish
	EC50	320 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0,97 mg/L (96 h)	Scenedesmus subspicatus	Alga

- CONTINUED ON NEXT PAGE -



**H-930**

**SECTION 12: ECOLOGICAL INFORMATION (continue)**

Identification	Acute toxicity		Specie	Genus
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Alga

**12.2 Persistence and degradability:**

Identification	Degradability		Biodegradability	
2-(2-butoxyethoxy)etanol CAS: 112-34-5 EC: 203-961-6	BOD5	0.25 g O2/g	Concentration	100 mg/L
	Code	2.08 g O2/g	Period	28 days
	BOD5/COD	0.12	% Biodegradable	92 %
Anionic hydrocarbon surfactant 6200700000 CAS: Non-applicable EC: Non-applicable	BOD5	Non-applicable	Concentration	10,5 mg/L
	Code	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	BOD5	0.71 g O2/g	Concentration	100 mg/L
	Code	2.2 g O2/g	Period	14 days
	BOD5/COD	0.32	% Biodegradable	96 %

**12.3 Bioaccumulative potential:**

Identification	Bioaccumulation potential	
2-(2-butoxyethoxy)etanol CAS: 112-34-5 EC: 203-961-6	BCF	0,46
	Pow Log	0,56
	Potential	Low
Fatty alcohol CAS: Non-applicable EC: Non-applicable	BCF	180
	Pow Log	5,13
	Potential	High
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	BCF	3
	Pow Log	0,83
	Potential	Low

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
2-(2-butoxyethoxy)etanol CAS: 112-34-5 EC: 203-961-6	Koc	48	Henry	7,2E-9 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	33950 N/m (25 °C)	Moist soil	No
Fatty alcohol CAS: Non-applicable EC: Non-applicable	Koc	15000	Henry	2,249E+0 Pa·m <sup>3</sup> /mol
	Conclusion	Immobile	Dry soil	Non-applicable
	Surface tension	29400 N/m (25 °C)	Moist soil	Yes
2-butoxyethanol CAS: 111-76-2 EC: 203-905-0	Koc	8	Henry	1,621E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	27290 N/m (25 °C)	Moist soil	Yes

**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 (Directive 2008/98/EC)
16 05 08*	Discarded organic chemicals consisting of or containing dangerous substances	Dangerous

**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 (2000/532/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.

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## SECTION 13: DISPOSAL CONSIDERATIONS (continue)

### 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, 2000/532/EC: Commission Decision of 3 May 2000

## 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

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 (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

### 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:

Synthetic foam concentrate specially designed to be used in high and medium expansion foam generators to fight Class A and Class B fires. The proportioning rate is 2-3% in fresh or sea water for the production of all kind of foams.

### Other legislation:

Non-applicable

### 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 (EC) N° 453/2010)

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

Non-applicable

### Text of R-phrases considered in section 3:

#### Directive 67/548/EC and Directive 1999/45/EC:

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R36: Irritating to eyes

R36/38: Irritating to eyes and skin

R38: Irritating to skin

R41: Risk of serious damage to eyes

R50: Very toxic to aquatic organisms

#### CLP Regulation (EC) n° 1272/2008:

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Aquatic Acute 1: H400 - Very toxic to aquatic life

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Causes serious eye irritation

Skin Irrit. 2: H315 - Causes skin irritation

### Advice related to training:

- CONTINUED ON NEXT PAGE -

## SECTION 16: OTHER INFORMATION (continue)

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:**

- 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 -