



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878 MOUSSOL<sup>®</sup>-APS LV Premium 1/3 F-15 #6471



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 Product identifier

# MOUSSOL<sup>®</sup>-APS LV Premium 1/3 F-15 #6471 UFI: 7KWJ-D06V-9001-AKCM

# **1.2** Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture

Fire-extinguishing foam

# **1.3 Details of the supplier of the safety data sheet**

 Bottans of the supplier of the su	ity unit should	
Manufacturer	Fabrik chemischer Präparate von Dr. R. Sthamer GmbH & Co. KG	
Street	Liebigstraße 5	
Postal code/City	D-22113 Hamburg	
Country	Deutschland	
Telephone	+49 (0)40/736168-0	
Telefax	+49 (0)40/736168-60	
E-mail (competent person)	labor@sthamer.com	
Website	http://sthamer.com	
Department responsible for information	Dr. Prall, +49 (0)40/736168-31	
Emergency telephone number	+49 (0)40/736168-0	

## **1.4 Emergency telephone number**

GIZ-Nord Poisons Centre of the University of Göttingen

+49 (0)551/19240

# **SECTION 2: Hazards identification**

The information in this section and in all following sections (unless otherwise stated) refer to the product in the delivery condition (concentrate). The ready-to-use solutions prepared according to the dilution recommendation are to be classified differently (see Section 16).

#### 2.1 **Classification of the substance or mixture** Classification according to Regulation (EC) No 1272/2008 [CLP] Eye Irrit. 2 H319 2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms WARNING Signal word Hazard statements H319 Causes serious eye irritation. Precautionary statements P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/.... P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,





if present and easy to do. Continue rinsing.

**Classification procedure** 

Bridging principle "Substantially similar mixtures".

2.3	Other hazards					
<b>2</b> .J	Endocrine disrupting properties					
	Preparation related information There are no data available on the mixture itself.					
	Information on ingredients					
	1,2-ETHANDIOL:					
	This substance does not have endocrine disrupting properties with respect to humans.					
	2-(2-BUTOXYETHOXY)ETHANOL:					
	This substance does not have endocrine disrupting properties with respect to humans.					
	OCTYLSULFATE:					
	This substance does not have endocrine disrupting properties with respect to humans.					
	DECYLSULFATE:					
	This substance does not have endocrine disrupting properties with respect to humans.					
	ALKYLPOLYGLYCOSIDE:					
	This substance does not have endocrine disrupting properties with respect to humans.					
	2-METHYLPENTANE-2,4-DIOL:					
	This substance does not have endocrine disrupting properties with respect to humans.					
	FLUOROSURFACTANT:					
	This substance does not have endocrine disrupting properties with respect to humans.					
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:					
	This substance does not have endocrine disrupting properties with respect to humans.					
	Results of PBT and vPvB assessment					
	Preparation related information					
	There are no data available on the mixture itself.					
	Information on ingredients					
	1,2-ETHANDIOL:					
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.					
	2-(2-BUTOXYETHOXY)ETHANOL:					
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.					
	OCTYLSULFATE:					
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.					
	DECYLSULFATE:					
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.					
	ALKYLPOLYGLYCOSIDE:					
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.					
	2-METHYLPENTANE-2,4-DIOL:					
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.					
	FLUOROSURFACTANT:					
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.					
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:					
	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.					
	The data refer to the product as delivered. The solutions for use produced according to dilution recommendations are to be classified differently.					
	Can harm the aquatic fauna when entering surface waters.					
	Can harm the bacteria population in waste water treatment plants when entering the sewerage system.					
	Breathing is not possible whilst submerged in the foam. Take care when spraying people!					
	The product contains fluorosurfactants that are not completely biodegradable.					
	Concentrated surfactant solutions always pose a danger to aquatic life because they greatly reduce the surface tension of water thus disrupting					
	all life processes associated with it. In sewage treatment plants, for example, the necessary aeration of the sewage stages can be hindered by					
	the strong foam formation.					

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances



not applicable

# 3.2 Mixtures

1,2-ETHANDIOL CAS No.: 107-21-1 EC No.: 203-473-3 REACH No.: 01-2119456816-28-XXXX Concentration: 5 - 10% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS08; Acute Tox. 4-STOT RE 2; H302-H373.8

### 2-(2-BUTOXYETHOXY)ETHANOL

CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44-XXXX Concentration: 15 - 20% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2; H319

## OCTYLSULFATE

CAS No.: 142-31-4 EC No.: 205-535-5 REACH No.: 01-2119966154-35-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1; H315-H318

# DECYLSULFATE

CAS No.: 142-87-0 EC No.: 205-568-5 REACH No.: 01-2119970328-30-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05-GHS07; Acute Tox. 4-Skin Irrit. 2-Eye Dam. 1-Aquatic Chronic 3; H302-H315-H318-H412

## ALKYLPOLYGLYCOSIDE

CAS No.: 68515-73-1 EC No.: 500-220-1 REACH No.: 01-2119488530-36-XXXX Concentration: 5 - 10% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1; H318

## 2-METHYLPENTANE-2,4-DIOL

CAS No.: 107-41-5 EC No.: 203-489-0 REACH No.: 01-2119539582-35-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS08; Skin Irrit. 2-Eye Irrit. 2-Repr. 2; H315-H319-H361d

## FLUOROSURFACTANT

Concentration: 1 - 5% The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES

Concentration: 1 - 5% The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

## WATER

CAS No.: 7732-18-5 Concentration: 35 - 70% The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The product does not contain any relevant amounts of substances that are on the SVHC list.



For full text of Hazard- and EU Hazard-statements: see SECTION 16.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately. Wash thoroughly the body (shower or bath).

Observe risk of aspiration if vomiting occurs.

When in doubt or if symptoms are observed, get medical advice.

### **Following inhalation**

Provide fresh air. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

## In case of skin contact

Wash immediately with:: Water

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### Following ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Dizziness Nausea Gastrointestinal complaints

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

If unconscious but breathing normally, place in recovery position and seek medical advice. IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

## 5.2 Special hazards arising from the substance or mixture

The product itself does not burn.

## 5.3 Advice for firefighters

Regardless of the admixture of a foam agent, extinguishing water can be heavily contaminated with hazardous substances due to the absorption of fire residues and should therefore, if possible, not enter the sewage system or bodies of water.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

## 6.2 Environmental precautions

Cover drains.





Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Treat the recovered material as prescribed in the section on waste disposal. Suitable material for taking up Sand Sawdust Chemical binding agents, containing acids

## 6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Avoid

Skin contact Eye contact Wear personal protection equipment (refer to section 8).

### Measures to prevent fire

The product is not oxidising Combustible Flammable Explosive Highly flammable No special fire protection measures are necessary.

#### **Environmental precautions**

Shafts and sewers must be protected from entry of the product.

## Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

## 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions** Do not store at temperatures above: +50°C

#### Requirements for storage rooms and vessels

Suitable container/equipment material Refined steel Polyethylene (PE) Unsuitable container/equipment material Aluminium Light metal Copper Zinc Alloy, containing copper Alloy, contains light metal



Iron. Steel

# Hints on joint storage

Storage class

12: non-combustible liquids that cannot be assigned to any of the above storage classes

## 7.3 Specific end use(s)

Fire-extinguishing foams based on synthetic surfactants Do not use for cleaning purposes.

## Recommendation

Observe technical data sheet.

## **SECTION 8: Exposure controls/personal protection**

8.1	Control parameters
	Substance name: 1,2-ETHANDIOL
	CAS No.: 107-21-1
	REACH No.: 01-2119456816-28-XXXX
	United Kingdom
	Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (EN)
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (EN)
	European Union
	Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (EC)
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (EC)
	Germany
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): AGW (DE)
	short-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): Peak (DE)
	Ireland
	Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (IE)
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (IE)
	Substance name: 2-(2-BUTOXYETHOXY)ETHANOL
	CAS No.: 112-34-5
	REACH No.: 01-2119475104-44-XXXX
	United Kingdom
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EN)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EN)
	European Union
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EC)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EC)
	Germany
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): AGW (DE)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): Peak (DE)
	Ireland
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (IE)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (IE)
<b>B.2</b>	Exposure controls
	Advices on general occupational hygiene
	Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.
	Avoid contact with skin, eyes and clothes.
	Remove contaminated, saturated clothing.
	Wash contaminated clothing prior to re-use.
	Wash hands before breaks and after work.



# Eye/face protection

Suitable eye protection Eye glasses with side protection goggles Face protection shield Recommended eye protection articles EN 166

## Hand protection

Suitable gloves type Gloves with long cuffs Suitable material NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber) Breakthrough time 120 min. Thickness of the glove material > 0.6 mm Recommended glove articles EN ISO 374 Breakthrough times and swelling properties of the material must be taken into consideration.

# Body protection

Body protection: not required.

## **Respiratory protection**

Usually no personal respirative protection necessary.

#### Environmental exposure controls

Store concentrate according to national regulations. Do not let the concentrate get into the environment. If possible, hold back the application solution and dispose of after use.

# **SECTION 9: Physical and chemical properties**

a)	Physical state			:	Liquid		
b)	Colour			:	yellow / brown		
C)	Odour			:	Glycol, Ether, Surfactant		
d)	Melting point/free	zing point		:	-15°C	EN 1568:201	8
e) Boiling point or initial boiling po		itial boiling point a	and boiling	1			
	range			:	> 100°C	DIN 51751	
f)	Flammability			:	not applicable		
g)	Lower and upper	explosion limit/fla	mmability				
	limit			:	No data available		
h)	Flash point			:	No flash point up to 100 °C.		
i)	Ignition temperatu	ure in °C		:	not applicable		
j)	Decomposition te	mperature		:	No data available		
k)	рН	at °C	20	:	6,5 - 8,5	DIN 19268	
I)	Viscosity	at °C	20	:	< 15 mm²/s	DIN 51562	Newton
		at °C	-15	:	< 50 mm²/s	DIN 51562	Newton
m)	Solubility			:	Water: completely miscible	OECD 105	
n)	Partition coefficie	nt n-octanol/water	· (log				
	value)			:	not applicable		



o)	Vapour pressure		:	No data available	
p)	Density and/or relative	-			5 m / / 0 = 0 /
	density at °C 20	0	:	1,040 - 1,080 g/ml	DIN 12791
q)	Relative vapour density		:	No data available	
r)	particle characteristics		:	not applicable	
	ther information				
Inf	formation with regard to physical ha	zarc	d c		
a)	Explosives		:	not applicable	
b)	Explosives		:	not applicable	
C)	Aerosols		:	not applicable	
d)	Oxidising gas		:	not applicable	
e)	Gases under pressure		:	not applicable	
f)	Flammable liquids		:	not applicable	
g)	Flammable solids		:	not applicable	
h)	Self-reactive substances and mixtures		:	not applicable	
i)	Pyrophoric liquids		:	not applicable	
j)	Pyrophoric solids		:	not applicable	
k)	Self-heating substances and mixtures		:	not applicable	
I)	Substances or mixtures which, in contact v	with			
	water, emit flammable gases		:	not applicable	
m)			:	not applicable	
n)	Oxidizing solids		:	not applicable	
o)	Organic peroxides		:	not applicable	
p)	Corrosive to metals		:	See section 7 of the safety data sheet.	
q)	Desensitised explosives		:	not applicable	
Ot	her safety characteristics				
a)	Mechanical sensitivity		:	not applicable	
b)	Self-accelerating polymerisation temperatu	ıre			
	(SAPT)		:	not applicable	
C)	formation of explosible dust/air mixtures		:	not applicable	
d)	acid/alkaline reserve		:	not applicable	
e)	Evaporation rate		:	No data available	
f)	miscibility		:	Water: completely miscible	
g)	Conductivity		:	~ 4100 µS/cm	
h)	Corrosiveness		:	Skin corrosion/irritation: none	
				Serious eye damage/irritation: irritant.	
i)	gas group		:	not applicable	
j)	Redox potential		:	not applicable	
k)	radical formation potential		:	not applicable	
I)	photocatalytic properties		:	not applicable	

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Materials to avoid Alkali (lye), concentrated Alkali metals Acid, concentrated Oxidising agent, strong Reducing agent, strong



Acid halides

10.2	Chemical stability
	No special measures are necessary.
10.3	Possibility of hazardous reactions
	No special measures are necessary.
10.4	Conditions to avoid
	Do not store at temperatures above: +50°C
10.5	Incompatible materials
	See section 7. No additional measures necessary.
10.6	Hazardous decomposition products
	Pyrolysis products, containing fluorine
	Fluorinated hydrocarbons
	Hydrofluoric acid

# **SECTION 11: Toxicological information**

Acute toxicity cute oral toxicity reparation related information 2050 > 2000 mg/kg The acute oral toxicity is correspondin becies Rat ethod Bridging principle "Substantially similar mixtures". formation on ingredients 2-ETHANDIOL: LD50 (7d) 2310 mg/kg ==> Harmful if swallowed. (Source: ECHA database «Registered substances») (2-BUTOXYETHOXY)ETHANOL: LD50 (14d) 5530 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») CTYLSULFATE: LD50 (14d) > 2000 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5.	g to GHS-category 5.
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(Source: ECHA database «Registered substances»)	
Cource. Lon A database «Negistered substances»)	
LD50 (14d) 1200 mg/kg ==>	
Harmful if swallowed.	
(Source: ECHA database «Registered substances»)	
KYLPOLYGLYCOSIDE:	
LD50 (14d) > 2000 mg/kg ==>	
The acute oral toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
METHYLPENTANE-2,4-DIOL:	
LD0 (15d) > 2000 mg/kg ==>	
The acute oral toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances») .UOROSURFACTANT:	



No data available The acute oral toxicity is corresponding to GHS-category 5. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP]. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) Acute dermal toxicity Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: LD50 (14d) > 3500 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 2-(2-BUTOXYETHOXY)ETHANOL: LD50 (1d) 2764 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») OCTYLSULFATE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») DECYLSULFATE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») ALKYLPOLYGLYCOSIDE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 2-METHYLPENTANE-2,4-DIOL: LD0 (15d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») FLUOROSURFACTANT: No data available The acute dermal toxicity is corresponding to GHS-category 5. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP]. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) Acute inhalation toxicity Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: LC50 (6h) > 2,5 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 2-(2-BUTOXYETHOXY)ETHANOL: NOEC (2h) 29 ppm ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») OCTYLSULFATE: No data available



No information available. No classification in the above-mentioned haza	rd class
(Source: Safety Data Sheet) DECYLSULFATE:	
No data available	
No information available. No classification in the above-mentioned haza	rd class
(Source: Safety Data Sheet)	
ALKYLPOLYGLYCOSIDE:	
No data available	
No information available. No classification in the above-mentioned haza	rd class
(Source: Safety Data Sheet)	
2-METHYLPENTANE-2,4-DIOL:	
No data available	
No information available. No classification in the above-mentioned haza	rd class
(Source: Safety Data Sheet)	
FLUOROSURFACTANT:	
No data available	
No information available. No classification in the above-mentioned haza	rd class
(Source: Safety Data Sheet)	
INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:	
The substances are not classified as dangerous according to Regulation	ו (EC) No. 1272/2008 [CLP].
No classification in the above-mentioned hazard class	
(Source: Safety Data Sheet)	
b) Skin corrosion/irritation	
Preparation related information	
non-irritant.	
Species	
Method Bridging principle "Substantially similar mixtures".	
Information on ingredients	
1,2-ETHANDIOL:	
non-irritant.	
(Source: Safety Data Sheet)	
2-(2-BUTOXYETHOXY)ETHANOL:	
non-irritant.	
(Source: Safety Data Sheet)	
OCTYLSULFATE:	
Causes skin irritation.	
(Source: Safety Data Sheet)	
DECYLSULFATE:	
Causes skin irritation.	
(Source: Safety Data Sheet)	
ALKYLPOLYGLYCOSIDE:	
non-irritant.	
(Source: Safety Data Sheet)	
2-METHYLPENTANE-2,4-DIOL:	
Causes skin irritation.	
(Source: Safety Data Sheet)	
FLUOROSURFACTANT:	
non-irritant.	
(Source: Safety Data Sheet)	
INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:	
non-irritant.	
(Source: Safety Data Sheet)	
a) Saviana ana damaga/iwitatian	
c) Serious eye damage/irritation	
Preparation related information	
Causes eye irritation.	

# Bridging principle "Substantially similar mixtures". Revision date: 05.07.2023 SD - 6471 - V09 - MOUSSOL-APS LV Premium 1x3 F-15 #6471 - EN

Species

Method



## Information on ingredients 1,2-ETHANDIOL: non-irritant. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: Causes serious eye irritation. (Source: Safety Data Sheet) OCTYLSULFATE: Causes serious eye damage. (Source: Safety Data Sheet) DECYLSULFATE: Causes serious eye damage. (Source: Safety Data Sheet) ALKYLPOLYGLYCOSIDE: Causes serious eye damage. (Source: Safety Data Sheet) 2-METHYLPENTANE-2.4-DIOL: Causes serious eye irritation. (Source: Safety Data Sheet) FLUOROSURFACTANT: non-irritant. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: non-irritant. (Source: Safety Data Sheet) d) Respiratory or skin sensitisation Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: not sensitising. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: not sensitising. (Source: Safety Data Sheet) OCTYLSULFATE: not sensitising. (Source: Safety Data Sheet) DECYLSULFATE: not sensitising. (Source: Safety Data Sheet) ALKYLPOLYGLYCOSIDE: not sensitising. (Source: Safety Data Sheet) 2-METHYLPENTANE-2.4-DIOL: not sensitisina. (Source: Safety Data Sheet) FLUOROSURFACTANT: not sensitising. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: not sensitising. (Source: Safety Data Sheet) e) Germ cell mutagenicity

Preparation related information There are no data available on the mixture itself. Information on ingredients



1,2-ETHANDIOL:
No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)
2-(2-BUTOXYETHOXY)ETHANOL:
No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)
OCTYLSULFATE:
No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)
DECYLSULFATE:
No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)
ALKYLPOLYGLYCOSIDE:
No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)
2-METHYLPENTANE-2,4-DIOL:
No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)
FLUOROSURFACTANT:
No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)
INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)
f) Carcinogenicity
Preparation related information
There are no data available on the mixture itself.
Information on ingradianta
Information on ingredients
1,2-ETHANDIOL:
1,2-ETHANDIOL:
1,2-ETHANDIOL: No indication of human carcinogenicity.
1,2-ETHANDIOL: No indication of human carcinogenicity. (Source: Safety Data Sheet)
<ul> <li>1,2-ETHANDIOL: No indication of human carcinogenicity. (Source: Safety Data Sheet)</li> <li>2-(2-BUTOXYETHOXY)ETHANOL: No indication of human carcinogenicity.</li> </ul>
1,2-ETHANDIOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL:
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         DECYLSULFATE:
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         No indication of human carcinogenicity.
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:         No indication of human carcinogenicity.
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2, 4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2, 4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2, 4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2, 4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:         No indication of human carcinogenicity.
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2, 4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:         No indication of human carcinogenicity.
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:         No indication of human carcinogenicity.
1,2-ETHANDIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         OCTYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         DECYLSULFATE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:         No indication of human carcinogenicity.         (Source: Safety Data Sheet)         INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:         No indication o

Information on ingredients 1,2-ETHANDIOL:



No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) OCTYLSULFATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) DECYLSULFATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) ALKYLPOLYGLYCOSIDE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) 2-METHYLPENTANE-2,4-DIOL: Suspected of damaging the unborn child. (Source: Safety Data Sheet) FLUOROSURFACTANT: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) h) STOT-single exposure Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: No known symptoms to date. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) OCTYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) DECYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) ALKYLPOLYGLYCOSIDE: No known symptoms to date. (Source: Safety Data Sheet) 2-METHYLPENTANE-2,4-DIOL: No known symptoms to date. (Source: Safety Data Sheet) FLUOROSURFACTANT: No known symptoms to date. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet) i) STOT-repeated exposure Preparation related information

There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: May cause damage to kidneys through prolonged or repeated exposure if swallowed.





(Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) OCTYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) DECYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) ALKYLPOLYGLYCOSIDE: No known symptoms to date. (Source: Safety Data Sheet) 2-METHYLPENTANE-2,4-DIOL: No known symptoms to date. (Source: Safety Data Sheet) FLUOROSURFACTANT: No known symptoms to date. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet) j) Aspiration hazard Preparation related information There are no data available on the mixture itself. Information on ingredients 1.2-ETHANDIOL: No known symptoms to date. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) OCTYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) DECYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) ALKYLPOLYGLYCOSIDE: No known symptoms to date. (Source: Safety Data Sheet) 2-METHYLPENTANE-2,4-DIOL: No known symptoms to date. (Source: Safety Data Sheet) FLUOROSURFACTANT: No known symptoms to date. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet)

## **11.2 Information on other hazards**

Endocrine disrupting properties
Preparation related information
There are no data available on the mixture itself.
Information on ingredients
1,2-ETHANDIOL:
This substance does not have endocrine disrupting properties with respect to humans.



(Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) OCTYLSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) DECYLSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) ALKYLPOLYGLYCOSIDE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 2-METHYLPENTANE-2,4-DIOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) FLUOROSURFACTANT: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)

## Other information

Breathing is not possible whilst submerged in the foam. Take care when spraying people!

# **SECTION 12: Ecological information**

## 12.1 Toxicity

	Acute (short-term) fish toxicity							
	Preparation related information							
	Effective dose LC50	: > 100 < 1000* mg/L						
	Exposure time	: 96 h						
	Species	: Leuciscus idus (golden orfe)						
	Method	: Bridging principle "Substantially similar mixtures".						
	Information on ingredients							
	1,2-ETHANDIOL:							
	LC50 (96h) > 72860 mg/	L						
	(Source: ECHA database	e «Registered substances»)						
	2-(2-BUTOXYETHOXY)ETHANO	L:						
LC50 (96hr) 1300mg/L								
(Source: ECHA database «Registered substances»)								
	OCTYLSULFATE:							
	LC50 (96h) > 100 mg/L; NOEC (96h) 100 mg/L							
	(Source: ECHA database «Registered substances»)							
	DECYLSULFATE:							
	LC50 (48h) 13 mg/L							
	1	e «Registered substances»)						
	ALKYLPOLYGLYCOSIDE:							
	LC50 (96h) 100,81 mg/L	<b>-</b>						
	•	e «Registered substances»)						
	2-METHYLPENTANE-2,4-DIOL:							
	LC50 (96h) > 8510 mg/L*.							
	(Source: Safety Data Sh	eet)						
	FLUOROSURFACTANT:							
	No data available	0						
	(Source: Safety Data Sh	,						
	INGREDIENTS NOT CLASSIFIED	D AS HAZARDOUS SUBSTANCES:						



No classification in the above-mentioned hazard class (Source: Safety Data Sheet)

## Acute (short-term) toxicity to aquatic invertebrates

Acute (short-term) Preparation related i	-	quatic invertebrates					
Effective dose	EC50	: > 100 < 1000* mg/L					
Exposure time	LOOU	: 48 h					
Species		: Daphnia magna (Big water flea)					
Method		: Bridging principle "Substantially similar mixtures".					
Information on ingred	dionto						
1,2-ETHANDIOL:							
	i) > 13900 m						
		e «Registered substances»)					
2-(2-BUTOXYETHO							
•	r) > 1101 mg						
	, <b>.</b>	e «Registered substances»)					
OCTYLSULFATE:							
EC50 (48h)	) > 100 mg/L;	; NOEC (48 h) 100 mg/L					
· · ·	•	se «Registered substances»)					
DECYLSULFATE:							
EC50 (48h)	) > 100 mg/L						
		e «Registered substances»)					
ALKYLPOLYGLYC	DSIDE:						
· · ·	) > 100 mg/L						
`		e «Registered substances»)					
2-METHYLPENTAN							
· · ·	2800 mg/L						
`		se «Registered substances»)					
FLUOROSURFACT							
No data av		0					
	afety Data Sh						
		D AS HAZARDOUS SUBSTANCES: bove-mentioned hazard class					
(Source. Sa	afety Data Sh	leel)					
Acute (short-term)	toxicity to al	gae and cyanobacteria					
Preparation related i	nformation						
Effective dose	EC50	: > 10 < 100* mg/L					
Exposure time		: 72 h					
Species		: Scenedesmus subspicatus					
Method		: Bridging principle "Substantially similar mixtures".					
Information on ingred	dients						
1,2-ETHANDIOL:							
	) > 6500 ma/l	L; NOEC (96h) 479 mg/L					

2-(2-BUTOXYETHOXY)ETHANOL: EC50 (72h) 1 101 mg/L (Source: ECHA database «Registered substances») OCTYLSULFATE: EC50 (72h) > 511 mg/L; NOEC (72h) 199 mg/L (Source: ECHA database «Registered substances») DECYLSULFATE: EC50 (72h) 8,64 mg/L; NOEC (72h) 0,95 mg/L (Source: ECHA database «Registered substances») ALKYLPOLYGLYCOSIDE: EC50 (72h) 27,22 mg/L; NOEC (72h) 6,25 mg/L (Source: ECHA database «Registered substances») 2-METHYLPENTANE-2,4-DIOL: NOEC (72h) 429 mg/L

(Source: ECHA database «Registered substances»)



	(Source: ECHA datab	ase «Registered substances»)						
	FLUOROSURFACTANT:							
	No data available							
	(Source: Safety Data							
		EIED AS HAZARDOUS SUBSTA	NCES:					
		e above-mentioned hazard class						
	(Source: Safety Data	Sheet)						
	Effects in sewage plants							
	Preparation related information							
	•	tory inhibition of municipal activat	-	1000				
	Ū	oncentration : 100%		: > 1000*				
	0	oncentration : 1%	Dilution	: > 10*				
		principle "Substantially similar m	ixtures".					
	Information on ingredients							
	1,2-ETHANDIOL:							
	NOEC (0,5h) > 1995 mg/L							
		ase «Registered substances»)						
	2-(2-BUTOXYETHOXY)ETHA NOEC (0,5h) 1995 m							
		g/∟ ase «Registered substances»)						
	OCTYLSULFATE:							
	EC50 (3h) 135 mg/L							
		ase «Registered substances»)						
	DECYLSULFATE:							
	EC50 (3h) 135 mg/L							
	(Source: ECHA database «Registered substances»)							
	EC50 (6h) > 560 mg/	_ ase «Registered substances»)						
	No data available (Source: Safety Data Sheet)							
	FLUOROSURFACTANT: No data available							
	(Source: Safety Data	Sheet)						
		FIED AS HAZARDOUS SUBSTA	NCES:					
		e above-mentioned hazard class						
	(Source: Safety Data							
	The product contains fluorosur	factants that are not completely b	iodegradable.					
	Some of the components are poorly biodegradable.							
	Remark							
	Observe local regulations conc	-						
	Special pre-treatments are nec	essary.						
	* The statement is derived from	n products of similar structure or o	composition.					
2	Develotones and dev	wedebility						
.2	Persistence and deg Biodegradation	radability						
	Preparation related information							
	Readily biodegradable (accord							
	Additional information	- ,	infactants that are not as	mpletely biodegradable				
	Degradation rate	: The product contains fluorosu : > 70%*	madiants that are not co	mpietery biodegradable.				
	Test duration	: 28 d						
	Analytical method	: BOD (% of COD).	lly aimilar misture -"					
	Method	: Bridging principle "Substantia	ily similar mixtures".					

Version: V09



	Type : Aerobic biolo	gical treatm	ent			
	Information on ingredients					
	1,2-ETHANDIOL:					
	> 90% (10d) OECD 301A		-)			
	Readily biodegradable (according to C		,			
	(Source: ECHA database «Registered 2-(2-BUTOXYETHOXY)ETHANOL:	Substances	5»)			
	92% (28d) OECD 301 E					
	Readily biodegradable (according to C	)FCD criteri:	a)			
	(Source: ECHA database «Registered		,			
	OCTYLSULFATE:		<i>s.</i> ,			
	93,5% (29d) OECD 301 B					
	Readily biodegradable (according to C	ECD criteria	a).			
	(Source: ECHA database «Registered		,			
	DECYLSULFATE:					
	92% (30d) OECD 301 D					
	Readily biodegradable (according to C		,			
	(Source: ECHA database «Registered	l substances	s»)			
	ALKYLPOLYGLYCOSIDE:					
	70% (28d) OECD 301 A					
	Readily biodegradable (according to C					
	(Source: ECHA database «Registered	substances	s»)			
	2-METHYLPENTANE-2, 4-DIOL:					
	> 60% (20d) OECD 301 F Readily biodegradable (according to C	ECD critori	a)			
	(Source: ECHA database «Registered		,			
	FLUOROSURFACTANT:	1 30031011063	5// )			
	No data available					
	No classification in the above-mention	ed hazard c	lass			
	(Source: Safety Data Sheet)					
	INGREDIENTS NOT CLASSIFIED ÁS HAZAR	DOUS SUB	STANCES:			
	> 70% (28d) OECD 301					
	Readily biodegradable (according to C	ECD criteria	a).			
	(Source: Safety Data Sheet)					
	Chemical average demand (COD)					
	Chemical oyxgen demand (COD)	. 1000/	Mathad		14 4	
	< 1000000* mg *O2/L  Concentration	: 100%	Method	DIN EN 38409-H4		
	< 10000* mg *O2/L   Concentration	: 1%	Method	DIN EN 38409-H4	-1-1	
	Biochemical oxygen demand					
	< 600000* mg *O2/L  Concentration	. 1000/	Method	DIN EN 1900 1	Test duration	Гd
	< 6000* mg *O2/L > Concentration	: 100% : 1%	Method	DIN EN 1899-1 DIN EN 1899-1	Test duration	5 d
		. 170	Method	DIN EN 1099-1	rest duration	5 d
	BOD5/COD ratio					
	60%					
	00 %					
	* The statement is derived from products of sim	ilor etructure	or composition			
	The statement is derived from products of sim		or composition.			
12.3	<b>Bioaccumulative potential</b>					
12.0	Preparation related information					
	There are no data available on the mixture itself	F.				
	Information on ingredients					
	1,2-ETHANDIOL:					
	log Kow -1,36					
	No indication of bioaccumulation poter	ntial.				
	(Source: ECHA database «Registered		s»)			
	2-(2-BUTOXYETHOXY)ETHANOL:					
	log Kow < 3					



	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	OCTYLSULFATE:
	log Pow <-2.31
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	DECYLSULFATE:
	log Pow 1.72
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	ALKYLPOLYGLYCOSIDE:
	log Kow < 1,77
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	2-METHYLPENTANE-2,4-DIOL:
	log Kow < 3
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	FLUOROSURFACTANT:
	No data available
	No information available. No classification in the above-mentioned hazard class
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	No classification in the above-mentioned hazard class
	No information available. No classification in the above-mentioned hazard class
	(Source: Safety Data Sheet)
12.4	Mobility in soil
	If product enters soil, it will be mobile and may contaminate groundwater.
12.5	Results of PBT and vPvB assessment
12.5	
12.5	Preparation related information
12.5	Preparation related information There are no data available on the mixture itself.
12.5	Preparation related information There are no data available on the mixture itself. Information on ingredients
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12.5	Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
12.5	Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:
12.5	Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         Cource: Safety Data Sheet)
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         OCTYLSULFATE:
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         Cource: Safety Data Sheet)
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         OCTYLSULFATE:
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<u>12.5</u>	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)
<u>12.5</u>	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         DECYLSULFATE:
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
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12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         2-(2-BUTOXYETHANY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         0CTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         2-METHYLPENTANE-2.4-DIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2.4-DIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
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12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         OCTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         OCTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         ALKYLPOLYGLYCOSIDE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-METHYLPENTANE-2,4-DIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         OCTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         ALKYLPOL YGLYCOSIDE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         2-METHYLPENTANE-2.4-DIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         FLUOROSURFACTANT:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)         FLUOROSURFACTANT:         This substance does not meet the PBT/vPvB criteria of
12.5	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         1,2-ETHANDIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-(2-BUTOXYETHOXY)ETHANOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         OCTYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         DECYLSULFATE:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-METH-YLPENTANE-2,4-DIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         2-METH-YLPENTANE-2,4-DIOL:         This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:
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12.6	Endocrine disrupting properties
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	1,2-ETHANDIOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	2-(2-BUTOXYETHOXY)ETHANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	OCTYLSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	DECYLSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	ALKYLPOLYGLYCOSIDE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	2-METHYLPENTANE-2,4-DIOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet) FLUOROSURFACTANT:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
12.7	Other adverse effects
	The product contains fluorosurfactants that are not completely biodegradable.

# SECTION 13: Disposal considerations

# **13.1 Waste treatment methods**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

# Waste codes/waste designations according to EWC/AVV

Waste code product

- 16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
- 1603 off-specification batches and unused products
- 160305\* organic wastes containing dangerous substances

#### Waste code packaging

- 15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
- 1501 packaging (including separately collected municipal packaging waste)
- 150110\* packaging containing residues of or contaminated by dangerous substances

#### Remark

Delivery to an approved waste disposal company. Send to a hazardous waste incinerator facility under observation of official regulations.

# **SECTION 14: Transport information**

# **14.1 UN number or ID number**



	none
14.2	UN proper shipping name
	not applicable
14.3	Transport hazard class(es)
	Land transport (ADR/RID)
	No dangerous good in sense of these transport regulations.
	Inland waterway craft (ADN)
	No dangerous good in sense of these transport regulations.
	Sea transport (IMDG)
	No dangerous good in sense of these transport regulations.
	Air transport (ICAO-TI / IATA-DGR)
	No dangerous good in sense of these transport regulations.
14.4	Packing group
	not applicable
14.5	Environmental hazards
	none
	Marine pollutant : No
14.6	Special precautions for user
	none
14.7	Maritime transport in bulk according to IMO instruments
	not applicable

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

**EU** legislation

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer not applicable

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

not applicable

Directive 96/59/EC (PCB-guideline) not applicable

Regulation (EC) No. 648/2004 [Detergents regulation] The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline). Volatile organic compounds (VOC) content in percent by weight:: max. 20

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases not applicable

# Regulation (EC) No 2019/1021 [POP/PFOS-Regulation]

The product fulfills all requirements and limit values of this EU regulation. The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the

manufacturer for the time before that.



#### Regulation (EC) No 2020/784 [PFOA-Regulation]

The product fulfills all requirements and limit values of this EU regulation. The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the manufacturer for the time before that.

## Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation]

The product fulfills all requirements and limit values of this EU regulation. The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the manufacturer for the time before that.

## National regulations

**Störfallverordnung (12. BlmschV)** This product is not classified according to StörfallV.

### Water hazard class

slightly hazardous to water (WGK 1) Self-classification according to AwSV (mixture).

### Annex Chemikalien-Verbotsverordnung (ChemVerbotsV) not applicable

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

The product described in the Safety Data Sheet may only be used for its intended purpose. For exercises please observe the recommendations of the technical committee of BMU/LAMA. The details in this safety data sheet are based on today's stand of our knowledge and is applicable to the product with regard to appropriate safety precautions. They do not represent any guarantee of the properties of the product and do not establish any legal relationship.

Please refer to our internet website for more information. www.sthamer.com

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

#### Classification for the 1%/3% application solution of MOUSSOL-APS LV Premium 1/3 F-15 #6471:

The information in this safety data sheet only applies to the unchanged product in the delivery condition. An application solution prepared therefrom by diluting it with water as recommended usually has significantly fewer hazardous features due to the dilution principle and can even be unclassified. See also the environmental data sheet provided by us.

#### Full text of Hazard- and EU Hazard-statements

- H302 Harmful if swallowed or if inhaled.
- H315 Causes skin and eye irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H361d Suspected of damaging the unborn child.
- H373.8 May cause damage to kidneys through prolonged or repeated exposure if swallowed.
- H412 Harmful to aquatic life with long lasting effects.

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