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SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1	Product identifier			
	MOUSSOL <sup>®</sup> -APS LV	1/1 F-15 #6101		
	UFI: 1TVH-30TY-X00X-K8RR			
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 sa	fety data sheet		
	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 Gö	ttingen		
	Telephone	+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 - STOT RE 2 H373 Label elements 2.2 Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms Signal word WARNING Hazard statements H319 Causes serious eye irritation. H373.8 May cause damage to kidneys through prolonged or repeated exposure if swallowed. H412 Harmful to aquatic life with long lasting effects. 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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin P303+P361+P353 with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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		lenses, if present and easy to do. Continue rinsing.
	Classification procedure	On basis of test data./Experimental data
2.3	Other hazards	
	Endocrine disrupting properti	es
	Preparation related information	
	There are no data available on the	he mixture itself.
	Information on ingredients	
	1,2-ETHANDIOL:	
	•	ot have endocrine disrupting properties with respect to humans.
		ot have endocrine disrupting properties with respect to humans.
	This substance does n DECYLSULFATE:	ot have endocrine disrupting properties with respect to humans.
		ot have endocrine disrupting properties with respect to humans.
		ot have endocrine disrupting properties with respect to humans. XYSULTAINE:
		ot have endocrine disrupting properties with respect to humans.
	This substance does n	ot have endocrine disrupting properties with respect to humans. ED AS HAZARDOUS SUBSTANCES:
		ot have endocrine disrupting properties with respect to humans.
	Results of PBT and vPvB asse	essment
	Preparation related information	
	There are no data available on t	he mixture itself.
	Information on ingredients	
	1,2-ETHANDIOL:	
	•	ot meet the PBT/vPvB criteria of REACH, Annex XIII.
	2-(2-BUTOXYETHOXY)ETHAN	
		ot meet the PBT/vPvB criteria of REACH, Annex XIII.
	OCTYLSULFATE:	
	DECYLSULFATE:	ot meet the PBT/vPvB criteria of REACH, Annex XIII.
	ALKYLPOLYGLYCOSIDE:	ot meet the PBT/vPvB criteria of REACH, Annex XIII.
	COCOAMIDOPROPYL HYDRO	
	FLUOROSURFACTANT:	ot meet the PBT/vPvB criteria of REACH, Annex XIII.
		ot meet the PBT/vPvB criteria of REACH, Annex XIII.
		ED 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 differently.	delivered. The solutions for use produced according to dilution recommendations are to be classified
	Can harm the aquatic fauna whe	en entering surface waters.
		n in waste water treatment plants when entering the sewerage system.
		submerged in the foam. Take care when spraying people!
		actants that are not completely biodegradable.
		is always pose a danger to aquatic life because they greatly reduce the surface tension of water thus ociated with it. In sewage treatment plants, for example, the necessary aeration of the sewage stages can be notion





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	Substances
	not applicable
2	Mixtures
	1,2-ETHANDIOL
	CAS No.: 107-21-1
	EC No.: 203-473-3
	REACH No.: 01-2119456816-28-XXXX
	Concentration: 10 - 15%
	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: 10 - 15%
	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
	Gassingation according to regulation (LC) no 12/2/2000 [CLF]. GROUD, SNIT IIII. 2-Eye Datit. 1, RD10-RD10
	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; Acute Tox. 4-Skin Irrit. 2-Eye Dam. 1; H302-H315-H318
	ALKYLPOLYGLYCOSIDE
	CAS No.: 68515-73-1
	EC No.: 500-220-1
	REACH No.: 01-2119488530-36-XXXX
	Concentration: 1 - 5%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1; H318
	COCOAMIDOPROPYL HYDROXYSULTAINE
	CAS No.: 68139-30-0
	EC No.: 268-761-3
	REACH No.: 01-2120785852-41-XXXX
	Concentration: 1 - 5%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1-Skin Irrit. 2; H315-H318
	FLUOROSURFACTANT
	CAS No.: 34455-29-3
	EC No.: 252-046-8
	REACH No.: 01-2120119140-76-XXXX
	Concentration: 0,25 - 2,5%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS09; Eye Irrit. 2-Aquatic Chronic 2; H319-H411

## INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES



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### Concentration: 5 - 10%

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

#### WATER

CAS No.: 7732-18-5 Concentration: 37,5 - 70,75% 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.

Full text of H- and EUH-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.



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#### 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.

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## **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





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## 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)



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	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)
2	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.
	Apply skin care products after work.
	Eye/face protection
	Suitable eye protection
	Eye glasses with side protection
	goggles
	Face protection shield
	Recommended eye protection articles
	DIN 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**



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a)	Physical state			:	Liquid		
b)	Colour			:	yellow / brown		
c)	Odour			:	Glycol, Ether, Surfactant		
d)	Melting point/freezing	ng point		:	-15°C	EN 1568:2018	3
e)	Melting point/freezin	• •		:	> 100°C	DIN 51751	
f)	Flammability	01		:	not applicable		
ý)	Lower and upper ex	plosion limit/fla	mmability				
•,	limit	•	•	:	No data available		
h)	Flash point			:	No flash point up to 100 °C.		
i)	Ignition temperature	e in °C		:	not applicable		
j)	Decomposition tem	perature		:	No data available		
k)	рН	at °C	20	:	6,5 - 8,5	DIN 19268	
I)	Viscosity	at °C	20	:	< 20 mm²/s	DIN 51562	Newton
	-	at °C	-15	:	< 60 mm²/s	DIN 51562	Newton
m)	Solubility			:	Water: completely miscible	OECD 105	
n)	Partition coefficient	n-octanol/water	r (log				
•	value)			:	not applicable		
o)	Vapour pressure			:	No data available		
p)	Density and/or relat	ive					
	density	at °C	20	:	1,050 - 1,090 g/ml	DIN 12791	
q)	Relative vapour den	nsity		:	No data available		
r)	particle characterist	tics		:	not applicable		
	her information						
Inf	ormation with reg		cal haza	rd (			
Inf a)	ormation with reg Explosives		cal haza	rd ( : :	not applicable		
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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878 MOUSSOL®-APS LV 1/1 F-15 #6101

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	f) miscibility	: Water: completely miscible
	g) Conductivity	: ~ 3400 µS/cm
	h) Corrosiveness	: Skin corrosion/irritation: none
		Serious eye damage/irritation: irritant
	i) gas group	: not applicable
	j) Redox potential	: not applicable
	<ul> <li>k) radical formation potential</li> </ul>	: not applicable
	I) photocatalytic properties	: not applicable
	Additional hazards	
	Breathing is not possible whilst submerged in the foa	m. Take care when spraying people!
SEC	TION 10: Stability and reactivit	V
JEU	Tion To: Stability and reaction	
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 product	S
	Durahusia pradusta, containing fluoring	
	Pyrolysis products, containing fluorine	
	Fluorinated hydrocarbons Hydrofluoric acid	

## **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) Acute toxicity Acute oral toxicity Preparation related information LD50 > 2000 mg/kg The acute oral toxicity is corresponding to GHS-category 5. Species Rat Method On basis of test data.: OECD 420 Information on ingredients 1,2-ETHANDIOL:





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$eq: Source: ECHA database rRegistered substancess) \\ 2(2-BUTOXYETHOXY)ETHANOL: \\ LDS0 (144) 5500 mg/kg => \\ The acute oral toxicity is corresponding to GHS-category 5.  (Source: ECHA database rRegistered substancess)  OCTV.SULFATE: \\ LDS0 (144) 2000 mg/kg => \\ The acute oral toxicity is corresponding to GHS-category 5.  (Source: ECHA database rRegistered substancess)  DECVLSULFATE: \\ LDS0 (144) 1200 mg/kg => \\ Hermiti if wallowed.  (Source: ECHA database rRegistered substancess)  DECVLSULFATE: \\ LDS0 (140) 2000 mg/kg => \\ Hermiti if wallowed.  (Source: ECHA database rRegistered substancess)  DECVLSULFATE: \\ LDS0 (140) 2000 mg/kg => \\ The acute oral toxicity is corresponding to GHS-category 5.  (Source: ECHA database rRegistered substancess)  COCOMIDOPROPY. HVPORXYSULTAINE: \\ LDS0 (140) 2950 mg/kg => \\ The acute oral toxicity is corresponding to GHS-category 5.  (Source: ECHA database rRegistered substancess)  FLUOROSUFATCATMT: \\ LDS0 (140) 5000 mg/kg => \\ The acute oral toxicity is corresponding to GHS-category 5.  (Source: ECHA database areguistered substancess)  FLUOROSUFATCATMT: \\ LDS0 (140) 5000 mg/kg => \\ The acute oral toxicity is corresponding to GHS-category 5.  (Source: ECHA database areguistered substancess)  FLUOROSUFATATMT: \\ LDS0 (140) 5000 mg/kg => \\ The acute oral toxicity is corresponding to GHS-category 5.  (Source: ECHA database areguistered substances)  INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: \\ The substances are not classified as dangerous according to Regulation (EC) No. 12722006 [CLP].  No classification in the adover mentioned hazard class  (Source: ECHA database rRegistered substances)  IJZETHANDIC: \\ LDS0 (140) > 3500 mg/kg => \\ The acute demail toxicity is corresponding to GHS-category 5.  (Source: ECHA database rRegistered substances))  DCVLSULFATE: \\ LDS0 (140) > 2000 mg/kg => \\ The acute demail toxicity is corresponding to GHS-category 5.  (Source: ECHA database rRegistered substances))  DCVLSULFATE: \\ LDS0 (140) > 2000 mg/kg$		LD50 (7d) 2310 mg/kg ==>
$\begin{aligned} 2_{4}2_{4}UCXYETHOXYETHOXYCLTANOL: \\ LD50 (14d) 5530 mg/kg ==> \\ The acute oral toxicity is corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ OCTV.SULFATE: \\ LD50 (14d) > 2000 mg/kg ==> \\ The acute oral toxicity is corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ DECVLSULFATE: \\ LD50 (14d) 1200 mg/kg ==> \\ Harmful fi swalowed. \\ (Source: ECHA database «Registered substances») \\ ALKYLPOLYCG/VCOSIDE: \\ LD50 (14d) > 2000 mg/kg ==> \\ The acute oral toxicity is corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ OCCOAMIDOPROPYL HYDROXYSULTAINE: \\ LD50 (14d) > 2000 mg/kg ==> \\ The acute oral toxicity is corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ OUCOAMIDOPROPYL HYDROXYSULTAINE: \\ LD50 (14d) 2500 mg/kg ==> \\ The acute oral toxicity is corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ FLUOROSURFACTANT: \\ LD50 (14d) > 5000 mg/kg ==> \\ The acute oral toxicity is corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ INGREDIENTS NOT CLASSIFIED AS HAZAROUS 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 a corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ 2/2 BUTOXYETHOXYDETHANCL: \\ LD50 (14d) > 2000 mg/kg ==> \\ The acute demat loxicity is corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ 2/2 BUTOXYETHOXYDETHANCL: \\ LD50 (14d) > 2000 mg/kg ==> \\ The acute demat loxicity is corresponding to CHS-category 5. \\ (Source: ECHA database «Registered substances») \\ OCTVLSULFATE: \\ LD50 (14d) > 2000 mg/kg ==> \\ The acute demat loxicity is corresponding to GHS-category 5. \\ (Source: ECHA database «Registered substances») \\ OCTVLSULFATE: \\ LD50 (14d) > 2000 mg/kg ==> \\ The acute demat loxic$		
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(Source: ECHA database «Registered substances») ALKYLPOLYGLYCOSIDE: LD50 (14d) > 2000 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») COCOAMIDOPROPYL HYDROXYSULTAINE: LD50 (14d) 2950 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») FLUOROSURFACTANT: LD50 (14d) > 5000 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 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-ETHANDICL: LD50 (14d) > 5000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 2/2-BUTOXYETHANOL: LD50 (14d) > 5000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 2/2-BUTOXYETHANOL: LD50 (14d) > 2764 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 2/2-BUTOXYETHANOL: 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») 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») ALKYLPOLYGLYCOSIDE: L		LD50 (14d) 1200 mg/kg ==>
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LD50 (14d) > 2000 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») COCOMIDOPROPYL HVDROXYSULTAINE: LD50 (14d) 2500 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») FLUOROSURFACTANT: LD50 (14d) > 5000 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») 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: ECH4 database «Registered substances») 2:/2.BUTOXYETHOXYETHANOL: LD50 (14d) > 3500 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») 2:/2.BUTOXYETHOXYETHANOL: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») 2:/2.BUTOXYETHOXYETHANOL: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») DECYLSULFATE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») DECYLSULFATE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») ALKYLPOLYGLYCOSIDE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECH4 database «Registered substances») ALKYLPOLYGLYCOSIDE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxici		(Source: ECHA database «Registered substances»)
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No	data available
	nformation available. No classification in the above-mentioned hazard class
	urce: Safety Data Sheet)
FLUOROSU	
LD5	0 (14d) > 5000 mg/kg ==>
	acute dermal toxicity is corresponding to GHS-category 5.
(Soi	urce: ECHA database «Registered substances»)
INGREDIEN	TS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
	classification in the above-mentioned hazard class
(Soi	urce: Safety Data Sheet)
Acute inhala	tion toxicity
	elated information
	data available on the mixture itself.
Information o	n ingredients
1,2-ETHAND	
,	0 (6h) > 2.5  mg/L ==>
	acute inhalation toxicity related to vapours is corresponding to GHS-category 5.
	urce: ECHA database «Registered substances»)
2-(2-BUTOX	YETHOXY)ETHANOL:
NO	EC (2h) 29 ppm ==>
	acute inhalation toxicity related to vapours is corresponding to GHS-category 5.
	urce: ECHA database «Registered substances»)
OCTYLSULF	
	lata available
	nformation available. No classification in the above-mentioned hazard class
	urce: Safety Data Sheet)
DECYLSULF	
	lata available nformation available. No classification in the above-mentioned hazard class
	urce: Safety Data Sheet)
•	GLYCOSIDE:
	data available
	nformation available. No classification in the above-mentioned hazard class
	urce: Safety Data Sheet)
	DPROPYL HYDROXYSULTAINE:
No	lata available
No i	nformation available. No classification in the above-mentioned hazard class
(Soi	urce: Safety Data Sheet)
FLUOROSU	RFACTANT:
	data available
	nformation available. No classification in the above-mentioned hazard class
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-	TS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
	classification in the above-mentioned hazard class
(501	urce: Safety Data Sheet)
b) Skin co	rosion/irritation
Preparation r	elated information
non-irritant.	
Species	Albino rabbit
Method	On basis of test data.: OECD 404
1f	n ingredients
Information o	



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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) COCOAMIDOPROPYL HYDROXYSULTAINE: 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) c) Serious eye damage/irritation Preparation related information Causes eye irritation. Species Albino rabbit Method On basis of test data.: OECD 404 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) COCOAMIDOPROPYL HYDROXYSULTAINE: Causes serious eye damage. (Source: Safety Data Sheet) FLUOROSURFACTANT: Causes serious eye irritation. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: non-irritant. (Source: Safety Data Sheet) d) Respiratory or skin sensitisation





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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) COCOAMIDOPROPYL HYDROXYSULTAINE: not sensitising. (Source: Safety Data Sheet) FLUOROSURFACTANT: not sensitising. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: not sensitisina. (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) COCOAMIDOPROPYL HYDROXYSULTAINE: 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)





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f)	Carcinogenicity
Prep	aration related information
Ther	e are no data available on the mixture itself.
Infor	nation on ingredients
	THANDIOL:
,	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
2-(2-	BUTOXYETHOXY)ETHANOL:
- (-	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
007	YLSULFATE:
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
DEC	YLSULFATE:
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
ALK	YLPOLYGLYCOSIDE:
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
COC	OAMIDOPROPYL HYDROXYSULTAINE:
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
FLU	DROSURFACTANT:
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
INGI	REDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
g)	Reproductive toxicity
Prep	aration related information
Ther	e are no data available on the mixture itself.
Infor	nation on ingredients
	THANDIOL:
.,	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)
001	YLSULFATE:
001	No indications of human reproductive toxicity exist.
	(Source: Safety Data Sheet)
DEC	YLSULFATE:
DLU	No indications of human reproductive toxicity exist.
	(Source: Safety Data Sheet)
ΔΙΚ	YLPOLYGLYCOSIDE:
	No indications of human reproductive toxicity exist.
	(Source: Safety Data Sheet)
COC	OAMIDOPROPYL HYDROXYSULTAINE:
000	No indications of human reproductive toxicity exist.
	(Source: Safety Data Sheet)
FU	(Source: Salety Data Sheet) DROSURFACTANT:
I LU	No indications of human reproductive toxicity exist.
	· · ·
	(Source: Safety Data Sheet) REDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
ING	VEDIENTS INOT OLASSIFIED AS MALAKDOUS SUBSTAINCES.





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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) COCOAMIDOPROPYL HYDROXYSULTAINE: 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)

(Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: No known symptoms to date. (Source: Safety Data Sheet) FLUOROSURFACTANT: No known symptoms to date.





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1	(Course: Cofet, Data Chaot)
	(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)
	COCOAMIDOPROPYL HYDROXYSULTAINE:
	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)
	COCOAMIDOPROPYL HYDROXYSULTAINE:
	This substance does not have endocrine disrupting properties with respect to humans.



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(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	:~438 mg/L
Exposure time	: 96 h
Species	: Leuciscus idus (golden orfe)
Method	: On basis of test data .: OECD 203
Information on ingredients	
1,2-ETHANDIOL:	
LC50 (96h) > 72860 mg	
	e «Registered substances»)
2-(2-BUTOXYETHOXY)ETHAN	DL:
LC50 (96hr) 1300mg/L	
	e «Registered substances»)
OCTYLSULFATE:	
LC50 (96h) > 100 mg/L;	
	e «Registered substances»)
DECYLSULFATE:	
LC50 (48h) 13 mg/L	e «Registered substances»)
ALKYLPOLYGLYCOSIDE:	se «Regisiered subsidices»)
LC50 (96h) 100,81 mg/l	
	- e «Registered substances»)
COCOAMIDOPROPYL HYDRO	<b>c</b> ,
LC50 (96h) > 1 mg/L	
(Source: Safety Data Sh	neet)
FLUOROSURFACTANT:	,
LC50 (96h) > 35 mg/L	
(Source: ECHA databas	e «Registered substances»)
INGREDIENTS NOT CLASSIFIE	ED AS HAZARDOUS SUBSTANCES:
No classification in the a	bove-mentioned hazard class
(Source: Safety Data Sh	neet)
• • • • • • • • • • • •	
Acute (short-term) toxicity to c	rustacea
Preparation related information	
Effective dose EC50	:~742 mg/L
Exposure time	: 48 h
Species	: Daphnia magna (Big water flea)
Method	: On basis of test data.: OECD 202
Information on ingredients	
1,2-ETHANDIOL:	

EC50 (48h) > 13900 mg/L



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2-(2-BUTOXYETHOX) EC50 (48hr) >	Y)ETHANC	DL:	ed substances»)
			ed substances»)
EC50 (48h) >	100 ma/l ·		h) 100 ma/l
			ed substances»)
DECYLSULFATE:	, addbdo		
EC50 (48h) >	100 mg/L		
		e «Registere	ed substances»)
ALKYLPOLYGLYCOS		Ū	,
EC50 (48h) >	100 mg/L		
(Source: ECH	A databas	e «Registere	ed substances»)
COCOAMIDOPROPY	L HYDROX	KYSULTAIN	E:
EC50 (48h) 1	-	. ,	-
		e «Registere	ed substances»)
FLUOROSURFACTAN			
EC50 (48h) 14			
			ed substances»)
			RDOUS SUBSTANCES:
			oned hazard class
(Source: Safe	ty Data Sh	ieet)	
A quite (ab art tarm) ta	deite te el		an ah a staria
Acute (short-term) to Preparation related info		gae and cya	anopaciena
Effective dose	EC50		mg/L
Exposure time		:72 h	
Species			smus subspicatus
Method		: On basis	of test data .: OECD 201
Information on ingredie	<u>nts</u>		
1,2-ETHANDIOL:	0500 //		N ) 470 //
EC50 (96h) >			
			ed substances»)
2-(2-BUTOXYETHOX) EC50 (72h) 1		JL.	
( )	0	o "Pogistor	ed substances»)
OCTYLSULFATE:	A ualabas	e «negisiere	eu substances»)
EC50 (72h) >	511 ma/l ·		199 ma/l
			ed substances»)
DECYLSULFATE:	IA databas	e «Registere	ed substances»)
DECYLSULFATE: EC50 (72h) 8,	lA databas ,64 mg/L; N	e «Registere NOEC (72h)	ed substances») 0,95 mg/L
DECYLSULFATE: EC50 (72h) 8,	IA databas ,64 mg/L; N IA databas	e «Registere NOEC (72h)	ed substances»)
DECYLSULFATE: EC50 (72h) 8, (Source: ECH	IA databas ,64 mg/L; N IA databas <i>IDE:</i>	e «Registere NOEC (72h) e «Registere	ed substances») 0,95 mg/L ed substances»)
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 27	IA databas ,64 mg/L; N IA databas <i>IDE:</i> 7,22 mg/L;	e «Registere NOEC (72h) e «Registere NOEC (72h	ed substances») 0,95 mg/L ed substances»)
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 27	A databas ,64 mg/L; N A databas <i>IDE:</i> 7,22 mg/L; A databas	e «Registere NOEC (72h) e «Registere NOEC (72h e «Registere	ed substances») 0,95 mg/L ed substances») ) 6,25 mg/L ed substances»)
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 2 (Source: ECH	A databas ,64 mg/L; N IA databas <i>IDE:</i> 7,22 mg/L; IA databas <i>L HYDRO</i>	e «Registere NOEC (72h) e «Registere NOEC (72h e «Registere KYSULTAIN	ed substances») 0,95 mg/L ed substances») 1) 6,25 mg/L ed substances») <i>E:</i>
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 2 (Source: ECH COCOAMIDOPROPYI EC50 (72h) 0, (Source: ECH	A databas ,64 mg/L; N IA databas <i>IDE:</i> 7,22 mg/L; IA databas <i>L HYDRO</i> ,32 mg/L; N IA databas	e «Registere NOEC (72h) e «Registere NOEC (72h e «Registere XYSULTAIN NOEC (72h)	ed substances») 0,95 mg/L ed substances») 1) 6,25 mg/L ed substances») <i>E:</i>
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 2 (Source: ECH COCOAMIDOPROPYL EC50 (72h) 0,	A databas ,64 mg/L; N IA databas <i>IDE:</i> 7,22 mg/L; IA databas <i>L HYDRO</i> ,32 mg/L; N IA databas	e «Registere NOEC (72h) e «Registere NOEC (72h e «Registere XYSULTAIN NOEC (72h)	ed substances») 0,95 mg/L ed substances») 1) 6,25 mg/L ed substances») <i>E:</i> 0,045 mg/L
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 2 (Source: ECH COCOAMIDOPROPYL EC50 (72h) 0, (Source: ECH FLUOROSURFACTAN EC50 (72h) 3,	IA databas 64 mg/L; N IA databas <i>IDE:</i> 7,22 mg/L; IA databas <i>L HYDRO</i> 32 mg/L; N IA databas <i>VT:</i> 26 mg/L	e «Registere NOEC (72h) e «Registere NOEC (72h e «Registere KYSULTAIN NOEC (72h) e «Registere	ed substances») 0,95 mg/L ed substances») 0,6,25 mg/L ed substances») <i>E:</i> 0,045 mg/L ed substances»)
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 2 (Source: ECH COCOAMIDOPROPYL EC50 (72h) 0, (Source: ECH FLUOROSURFACTAN EC50 (72h) 3, (Source: ECH	IA databas ,64 mg/L; N IA databas <i>IDE:</i> 7,22 mg/L; IA databas <i>L HYDRO</i> ,32 mg/L; N IA databas <i>VT:</i> ,26 mg/L IA databas	e «Registere NOEC (72h) e «Registere NOEC (72h e «Registere (YSUL TAIN NOEC (72h) e «Registere e «Registere	ed substances») 0,95 mg/L ed substances») 0,25 mg/L ed substances») <i>E:</i> 0,045 mg/L ed substances») ed substances»)
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 2 (Source: ECH COCOAMIDOPROPYI EC50 (72h) 0, (Source: ECH FLUOROSURFACTAN EC50 (72h) 3, (Source: ECH INGREDIENTS NOT C	A databas 64 mg/L; N A databas IDE: 7,22 mg/L; A databas L HYDRO 32 mg/L; N A databas VT: 26 mg/L A databas CLASSIFIE	e «Registere NOEC (72h) e «Registere NOEC (72h e «Registere (YSULTAIN NOEC (72h) e «Registere e «Registere D AS HAZA	ed substances») 0,95 mg/L ed substances») 1) 6,25 mg/L ed substances») <i>E:</i> 0,045 mg/L ed substances») ed substances») <i>RDOUS SUBSTANCES:</i>
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 2 (Source: ECH COCOAMIDOPROPY EC50 (72h) 0, (Source: ECH FLUOROSURFACTAN EC50 (72h) 3, (Source: ECH INGREDIENTS NOT C No classificati	A databas 64 mg/L; N A databas <i>IDE:</i> 7,22 mg/L; A databas <i>L HYDRO</i> 32 mg/L; N A databas <i>VT:</i> 26 mg/L A databas <i>CLASSIFIE</i> on in the a	e «Registere NOEC (72h) e «Registere (YSUL TAIN NOEC (72h) e «Registere e «Registere D AS HAZA bove-mentic	ed substances») 0,95 mg/L ed substances») 0,25 mg/L ed substances») <i>E:</i> 0,045 mg/L ed substances») ed substances»)
DECYLSULFATE: EC50 (72h) 8, (Source: ECH ALKYLPOLYGLYCOS EC50 (72h) 2 (Source: ECH COCOAMIDOPROPYI EC50 (72h) 0, (Source: ECH FLUOROSURFACTAN EC50 (72h) 3, (Source: ECH INGREDIENTS NOT C	A databas 64 mg/L; N A databas <i>IDE:</i> 7,22 mg/L; A databas <i>L HYDRO</i> 32 mg/L; N A databas <i>VT:</i> 26 mg/L A databas <i>CLASSIFIE</i> on in the a	e «Registere NOEC (72h) e «Registere (YSUL TAIN NOEC (72h) e «Registere e «Registere D AS HAZA bove-mentic	ed substances») 0,95 mg/L ed substances») 1) 6,25 mg/L ed substances») <i>E:</i> 0,045 mg/L ed substances») ed substances») <i>RDOUS SUBSTANCES:</i>

Effects in sewage plants



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	Duran anation malata dinf		1		
	Preparation related inf				
	•	Respiratory inhibition of municipal activated sludge.			
	4000 mg/L	► Concentration         : 100%         Dilution         : > 250           ► Concentration         : 1%         Dilution         : > 3			
	400000 mg/L Method :				
		On basis of test data.: DIN 38412/part 3 (TTC)			
	Information on ingredie				
	1,2-ETHANDIOL:	> 1005 mg/l			
	NOEC (0,5h) > 1995 mg/L (Source: ECHA database «Registered substances»)				
	2-(2-BUTOXYETHOX				
	NOEC (0,5h)				
		A database «Registered substances»)			
	OCTYLSULFATE:				
	EC50 (3h) 135 mg/L				
		A database «Registered substances»)			
	DECYLSULFATE:				
	EC50 (3h) 13				
		A database «Registered substances»)			
	ALKYLPOLYGLYCOS				
	EC50 (6h) >	0			
	(Source: ECHA database «Registered substances»)				
	COCOAMIDOPROPYL HYDROXYSULTAINE:				
	No data available (Source: Safety Data Sheet)				
	(Source: Sarety Data Sheet) FLUOROSURFACTANT:				
	EC50 (3h) >1000 mg/L				
		A database «Registered substances»)			
	•	CLASSIFIED AS HAZARDOUS SUBSTANCES:			
	No classificat	ion in the above-mentioned hazard class			
	(Source: Safety Data Sheet)				
	The product contains t	luorosurfactants that are not completely biodegradable.			
	-	nts are poorly biodegradable.			
	Remark				
	Observe local regulation	ons concerning effluent treatment.			
	Special pre-treatments	-			
12.2	Persistence ar	nd degradability			
	Biodegradation				
	Preparation related inf	ormation			
		(according to OECD criteria).			
	Additional information	: The product contains fluorosurfactants that are not completely biodegradal	ble.		
	Degradation rate	:~94%			
	Test duration	: 14 d			
	Analytical method	: BOD (% of COD).			
	Method	: On basis of test data.: OECD 301F			
	Туре	: Aerobic biological treatment			
	Information on ingredients				
	1,2-ETHANDIOL:				
	> 90% (10d) OECD 301A				
	Readily biode	gradable (according to OECD criteria).			
	(Source: ECHA database «Registered substances»)				
	2-(2-BUTOXYETHOX				
	92% (28d) O	ECD 301 E			



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	Readily biodegradable (according to OECD criteria).
	(Source: ECHA database «Registered substances»)
	OCTYLSULFATE:
	93,5% (29d) OECD 301 B Readily biodegradable (according to OECD criteria).
	(Source: ECHA database «Registered substances»)
	DECYLSULFATE:
	92% (30d) OECD 301 D
	Readily biodegradable (according to OECD criteria).
	(Source: ECHA database «Registered substances»)
	ALKYLPOLYGLYCOSIDE:
	70% (28d) OECD 301 A
	Readily biodegradable (according to OECD criteria).
	(Source: ECHA database «Registered substances»)
	COCOAMIDOPROPYL HYDROXYSULTAINE:
	71% (28d) OECD 301 D
	Readily biodegradable (according to OECD criteria).
	(Source: ECHA database «Registered substances»)
	FLUOROSURFACTANT:
	0% (28d) OECD 301 F
	Not readily biodegradable (according to OECD criteria)
	(Source: ECHA database «Registered substances») INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	> 70% (28d) OECD 301
	Readily biodegradable (according to OECD criteria).
	(Source: Safety Data Sheet)
	(ource. dalety Data Cheet)
	Chemical oyxgen demand (COD)
	~ 902000 mg*O2/L ► Concentration : 100% Method DIN EN 38409-H41-1
	~ 9020 mg*O2/L ► Concentration : 1% Method DIN EN 38409-H41-1
	Biochemical oxygen demand
	~ 511000 mg*O2/L ► Concentration : 100% Method DIN EN 1899-1 Test duration 5 d
	~ 5110 mg*O2/L ► Concentration : 1% Method DIN EN 1899-1 Test duration 5 d
	BOD5/COD ratio
	57%
	5176
40.0	
12.3	Bioaccumulative potential
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	1,2-ETHANDIOL:
	log Kow -1,36
	No indication of bioaccumulation potential. (Source: ECHA database «Registered substances»)
	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





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1	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»)
	COCOAMIDOPROPYL HYDROXYSULTAINE:
	No data available
	No information available. No classification in the above-mentioned hazard class
	(Source: Safety Data Sheet)
	FLUOROSURFACTANT:
	BCF < 5,1
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	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
	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)
	ALKYLPOLYGLYCOSIDE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	COCOAMIDOPROPYL HYDROXYSULTAINE:
	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)
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
	(Source: Safety Data Sheet)
12.6	
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	1,2-ETHANDIOL:



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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) COCOAMIDOPROPYL HYDROXYSUI TAINE:	
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





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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

## **SECTION 15: Regulatory information**

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

#### mixture EU legislation

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

Regulation (EC) No. 304/2003 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. 15

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

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





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The product fulfills all requirements and limit values of this EU regulation.

Regulation (EC) No 2020/784 [PFOA-Regulation] The product fulfills all requirements and limit values of this EU regulation.

Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation] The product fulfills all requirements and limit values of this EU regulation.

## National regulations Störfallverordnung

This product is not classified according to StörfallVO.

## 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% application solution of MOUSSOL-APS LV 1/1 F-15 #6101:

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.

### Relevant R-, H- and EUH-phrases (Number and full text)

- H302 Harmful if swallowed or if inhaled.
- H315 Causes skin and eye irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H373.8 May cause damage to kidneys through prolonged or repeated exposure if swallowed.
- H411 Toxic to aquatic life with long lasting effects.