



### Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878 vapurex<sup>®</sup> FXS PLY 1% F-0 #2150



SEC	TION 1: Identification of the	substance/mixture and of the company/undertaking	g
1.1	Product identifier		
	vapurex <sup>®</sup> FXS PLY 1	% F-0 #2150	
	UFI: TMX5-CORH-T00N-1GDU	J	
1.2	Relevant identified uses of the s	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 +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		
	Classification according to R Skin Irrit. 2 H315 - Eye Irrit. 2 H	• • •	
2.2	Label elements		
	Labelling according to Regul	ation (EC) No. 1272/2008	I[CLP]
	Hazard pictograms		
			•
	Signal word	WARNING	•
	Hazard statements	H315	Causes skin and eye irritation.
		H319	Causes serious eye irritation.
		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.





		P305+P351+P338	water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense if present and easy to do. Continue rinsing.
	Classification procedure	On basis of test data	/Experimental data
3	Other hazards		
	Endocrine disrupting propertie	S	
	Preparation related information		
	There are no data available on th	e mixture itself.	
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANG	DL:	
		t have endocrine disrupt	ing properties with respect to humans.
	1-BUTOXY-2-PROPANOL:		
	This substance does no SODIUM-ALKYLETHERSULFA		ing properties with respect to humans.
			ing properties with respect to humans.
	SODIUM-ALPHA-OLEFIN SULF		
			ing properties with respect to humans.
	SODIUM ALKYLSULFOSUCCIN		
		t have endocrine disrupt	ing properties with respect to humans.
	DODECANOL:	t la sua sua da suita sulis un di	in a manufine with means of the law means
		t nave endocrine disrupt	ing properties with respect to humans.
	TETRADECANOL:	t have and aring diarunt	ing properties with respect to hymone
	This substance does no	t have endocrine disrupt	ing properties with respect to humans.
	Results of PBT and vPvB asse	ssment	
	Preparation related information		
	There are no data available on th	e mixture itself.	
	Information on ingredients		
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		JL.	
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### **SECTION 3: Composition/information on ingredients**

3.1 Substances

not applicable

3.2 Mixtures



### 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

### 1-BUTOXY-2-PROPANOL

CAS No.: 5131-66-8 EC No.: 225-878-4 REACH No.: 01-2119475527-28-XXXX Concentration: 10 - 15% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Skin Irrit. 2-Eye Irrit. 2; H315-H319

### SODIUM-ALKYLETHERSULFATE

CAS No.: 157707-85-2 EC No.: 605-106-6 REACH No.: ausgenommen Concentration: 15 - 20% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1; H315-H319

### SODIUM-ALPHA-OLEFIN SULFONATE

CAS No.: 68439-57-6 EC No.: 931-534-0 REACH No.: 01-2119513401-57-XXXX Concentration: 10 - 15% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1; H315-H318

### SODIUM ALKYLSULFOSUCCINATE

CAS No.: 577-11-7 EC No.: 209-406-4 REACH No.: 01-2119491296-29-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1; H315-H318

### DODECANOL

CAS No.: 112-53-8 EC No.: 203-982-0 REACH No.: 01-2119485976-15-XXXX Concentration: 0,25 - 2,5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS09; Eye Irrit. 2-Aquatic Acute 1-Aquatic Chronic 2; H319-H400-H411

### TETRADECANOL

CAS No.: 112-72-1 EC No.: 204-000-3 REACH No.: 01-2119485910-33-XXXX Concentration: 0,25 - 2,5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS09; Eye Irrit. 2-Aquatic Chronic 1; H319-H410

### WATER

CAS No.: 7732-18-5 Concentration: 25 - 53,5% 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.



SEC	TION 4: First aid measures
0_0	
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 f	or containment and cl	eaning un
0.5	methods and material r	or containinent and cr	заннич чи

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**

Precautions for safe handling Avoid
Skin contact
Eye contact
Wear personal protection equipment (refer to section 8).
wear personal protection equipment (relef to section 6).
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.
Conditions for safe storage, including any incompatibilities
 Conditions for safe storage, including any incompatibilities
 Conditions for safe storage, including any incompatibilities Technical measures and storage conditions Do not store at temperatures above: +50°C
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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)
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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
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
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



#### 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: 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)

### 8.2 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 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**

а	) Physical state			:	Liquid					
b	Odour			:	colourless / yellow					
С				:	: Glycol, Ether, Surfactant					
d				:	0°C	EN 1568:2018				
е	) Boiling point or initia									
	range				> 100°C	DIN 51751				
f)	Flammability			:	: not applicable					
g	) Lower and upper ex	plosion limit/fla	mmability							
	limit			:	No data available					
h	/ I			:	No flash point up to 100 °C.					
i)	•			:	not applicable					
j)		-		:	No data available					
k	· •	at °C	20	:	-,,-	DIN 19268				
I)	Viscosity	at °C	20	:	< 30 mm²/s	DIN 51562	Newton			
		at °C	0	:	< 120 mm²/s	DIN 51562	Newton			
n	n) Solubility			:	Water: completely miscible	OECD 105				
n	/	n-octanol/water	r (log							
	value)			: not applicable						
0	/ . P P			:	No data available					
р	• •									
	density	at °C	20	:	0,990 - 1,030 g/ml	DIN 12791				
q	, I	-		:	: No data available					
r)	particle characterist	ics		:	not applicable					
2 (	Other information	n								
lı	nformation with reg	gard to physi	cal haza	rd (	classes					
а	) Explosives			:	not applicable					
b	b) Explosives		:	: not applicable						
С	) Aerosols			:	: not applicable					
d	) Oxidising gas			: not applicable						
е	) Gases under pressu	ire		:	not applicable					
f)	Flammable liquids			:	not applicable					
g	) Flammable solids			:	not applicable					

Pyrophoric liquids

Pyrophoric solids

h)

i)

j)

Self-reactive substances and mixtures

not applicable

not applicable

not applicable

:

:

:



k)	Self-heating substances and mixtures	:	not applicable		
I)	Substances or mixtures which, in contact with				
	water, emit flammable gases	:	not applicable		
m)	Oxidising liquids	:	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 temperature				
	(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	:	~ 6000 µS/cm		
h)	Corrosiveness	:	Skin corrosion/irritation: irritant.		
			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		
Ad	ditional hazards				
	Breathing is not possible whilst submerged in the foam. Take care when spraying people!				
	0 r	-	1 7 01-11		

### **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	
	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



		es as defined in Regulation (EC) No 1272/2008
a) Acute to	•	
Acute oral to:	licity	
Preparation re	ated information	
LD50	> 2000 mg/kg 1	The acute oral toxicity is corresponding to GHS-category 5.
Species	Rat	
Method	On basis of test data.: O	DECD 420
Information or	ingredients	
`	ETHOXY)ETHANOL:	
	(14d) 5530 mg/kg ==>	
	cute oral toxicity is correspon	
	ce: ECHA database «Registe	ered substances»)
1-BUTOXY-2-		
	(14d) 3300 mg/kg ==>	dian to OLIO asternor F
	cute oral toxicity is correspon ce: ECHA database «Registe	
	YLETHERSULFATE:	ieu substances»)
	(14d) > 2000  mg/kg ==>	
	cute oral toxicity is correspond	iding to GHS-category 5
	ce: Safety Data Sheet)	
•	HA-OLEFIN SULFONATE:	
LD50	(14d) > 2300 mg/kg ==>	
The	icute oral toxicity is correspon	iding to GHS-category 5.
(Sou	ce: ECHA database «Registe	ed substances»)
SODIUM ALK	YLSULFOSUCCINATE:	
	(14d) > 2100 mg/kg ==>	
	cute oral toxicity is correspon	
	ce: ECHA database «Registe	red substances»)
DODECANOL		
	(14d) > 2000 mg/kg ==>	
	cute oral toxicity is correspon ce: ECHA database «Registe	
TETRADECA		ieu substances»)
	(14d) > 2000 mg/kg ==>	
	cute oral toxicity is correspon	iding to GHS-category 5
	ce: ECHA database «Registe	
,	0	,
Acute derma	•	
	ated information	
	ata available on the mixture its	iself.
Information or		
•	ETHOXY)ETHANOL:	
	(1d) 2764 mg/kg ==>	
	cute dermal toxicity is corresp	
(300 1-BUTOXY-2-	ce: ECHA database «Registe	red substances»)
	(14d) > 2000 mg/kg ==>	
	cute dermal toxicity is corresp	nonding to GHS-category 5
	ce: ECHA database «Registe	
	YLETHERSULFATE:	
	(14d) > 2000 mg/kg ==>	
	cute dermal toxicity is corresp	ponding to GHS-category 5.
	ce: Safety Data Sheet)	
	HA-OLEFIN SULFONATE:	
	(14d) > 2200 mg/kg ==>	
	cute dermal toxicity is corresp	oonding to GHS-category 5



(Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: LD50 (14d) > 10000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») DODECANOL: LD50 (14d) 8000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TETRADECANOL: LD50 (14d) 8000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») Acute inhalation toxicity Preparation related information There are no data available on the mixture itself. Information on ingredients 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») 1-BUTOXY-2-PROPANOL: NOEC (4h) 651 ppm; LC50 (4h) > 3.5 ma/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: LC50 (4h) >52 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: LC50 (96h) 20 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») DODECANOL: LC50 (1h) > 71 mg/L ==> The acute inhalation toxicity related to dust/mist is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TETRADECANOL: LC50 (1h) > 1,5 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») b) Skin corrosion/irritation Preparation related information Causes skin irritation. Species Albino rabbit Method On basis of test data .: OECD 404 Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: non-irritant. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: Causes skin irritation.

(Source: Safety Data Sheet)



SODIUM-ALKYLETHERSULFATE: Causes skin irritation. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: Causes skin irritation. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: Causes skin irritation. (Source: Safety Data Sheet) DODECANOL: non-irritant. (Source: Safety Data Sheet) TETRADECANOL: 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 2-(2-BUTOXYETHOXY)ETHANOL: Causes serious eye irritation. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: Causes serious eye irritation. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: Causes serious eye irritation. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: Causes serious eye damage. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: Causes serious eye damage. (Source: Safety Data Sheet) DODECANOL: Causes serious eye irritation. (Source: Safety Data Sheet) TETRADECANOL: Causes serious eye irritation. (Source: Safety Data Sheet) d) Respiratory or skin sensitisation Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: not sensitising. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: not sensitising. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: not sensitising. (Source: Safety Data Sheet)

not sensitising. Revision date: 26.06.2023 SD - 2150 - V05 - VAPUREX FXS PLY 1% F-0 #2150 - EN

SODIUM-ALPHA-OLEFIN SULFONATE:





(Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: not sensitising. (Source: Safety Data Sheet) DODECANOL: not sensitising. (Source: Safety Data Sheet) TETRADECANOL: 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 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indications of human derm cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) DODECANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) TETRADECANOL: 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 ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No indication of human carcinogenicity. (Source: Safety Data Sheet)

No indication of human carcinogenicity. (Source: Safety Data Sheet)



TETRADECANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) g) Reproductive toxicity Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE:

No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) DODECANOL:

No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) TETRADECANOL:

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 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No known symptoms to date. (Source: Safety Data Sheet) DODECANOL: No known symptoms to date. (Source: Safety Data Sheet) TETRADECANOL: No known symptoms to date. (Source: Safety Data Sheet)

### i) STOT-repeated exposure

<u>Preparation related information</u> There are no data available on the mixture itself.



Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No known symptoms to date. (Source: Safety Data Sheet) DODECANOL: No known symptoms to date. (Source: Safety Data Sheet) TETRADECANOL: No known symptoms to date. (Source: Safety Data Sheet) Aspiration hazard j) Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No known symptoms to date. (Source: Safety Data Sheet) DODECANOL: No known symptoms to date. (Source: Safety Data Sheet) TETRADECANOL: 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
2-(2-BUTOXYETHOXY)ETHANOL:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
1-BUTOXY-2-PROPANOL:
This substance does not have endocrine disrupting properties with respect to humans.



(Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) DODECANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) TETRADECANOL: 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

•	Iokiony				
	Acute (short-term) fish toxicity	,			
	Preparation related information				
	Effective dose LC50	:~:	32	mg/L	
	Exposure time	: 96	h		
	Species	: Le	uciscus	dus (golden orfe)	
	Method	: Or	n basis o	f test data.: OECD 203	
	Information on ingredients				
	2-(2-BUTOXYETHOXY)ETHAN	OL:			
	LC50 (96hr) 1300mg/L				
	(Source: ECHA databas	se «Re	egistered	substances»)	
	1-BUTOXY-2-PROPANOL:				
	LC50 (96h) 560 mg/L	_			
	(Source: ECHA databas		egistered	substances»)	
	SODIUM-ALKYLETHERSULFA				
	LC50 (96h) 1 - 10 mg/L				
	(Source: Safety Data Sl SODIUM-ALPHA-OLEFIN SULF	,	r <b>r</b> .		
		ONAI	E.		
	LC50 (96h) 4,2 mg/L (Source: ECHA databas	~~ <i>"</i> D	aistorad	substances»)	
	SODIUM ALKYLSULFOSUCCIN		egistered	substances»	
	LC50 (96h) 49 mg/L	VAIL.			
	(Source: ECHA databas	se «Re	eaistered	substances»)	
	DODECANOL:		- <u>g</u> .e.e.ee		
	LC50 (96h) 1,01 mg/L				
	(Source: ECHA databas	se «Re	egistered	substances»)	
	TETRADECANOL:		0	,	
	LC50 (96h) > 1,0 mg/L				
	(Source: ECHA databas	se «Re	egistered	substances»)	
	Acute (short-term) toxicity to a	quatio	c inverte	brates	
	Preparation related information				
	Effective dose EC50	:~2	25	mg/L	
	Exposure time	: 48	h		
	Species	: Da	aphnia m	agna (Big water flea)	
	Method		-	f test data.: OECD 202	



Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: EC50 (48hr) > 1101 mg/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (48h) > 1000 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: EC50 (48h) 10 - 100 mg/L (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: LC50 (48h) 4,53 mg/L (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: EC50 (48h) 15.2 ma/L (Source: ECHA database «Registered substances») DODECANOL: NOEC (48h) 0,316 mg/L; EC50 (48h) 0,765 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: EC50 (48h) 3,2 mg/L (Source: ECHA database «Registered substances») Acute (short-term) toxicity to algae and cyanobacteria Preparation related information Effective dose EC50 : ~ 18 mg/L :72 h Exposure time Species : Scenedesmus subspicatus Method : On basis of test data .: OECD 201 Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: EC50 (72h) 1 101 mg/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (96h) > 1000 mg/L; NOEC (96h) 569 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: EC50 (72h) > 100 mg/L (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: EC50 (48h) 45 mg/L (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: EC50 (72h) 82,5 mg/L; NOEC (72h) 22 mg/L (Source: ECHA database «Registered substances») DODECANOL: EC50 (72h) 0,66 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: EL50 (96h) > 10 mg/L (Source: ECHA database «Registered substances») Effects in sewage plants Preparation related information Analytical method : Respiratory inhibition of municipal activated sludge. 200 mg/L Concentration : 100% Dilution 20000 mg/L Concentration :1% Dilution Method : On basis of test data .: DIN 38412/part 3 (TTC)

: > 5000

: > 50



Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: NOEC (0,5h) 1995 mg/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (3h) > 1000 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: NOEC (16h) > 10000 mg/L (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: EC50 (3h) 230 mg/L; NOEC (3h) 40 mg/L (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: EC50 (16h) 164 mg/L; NOEC (16h) 122 mg/L (Source: ECHA database «Registered substances») DODECANOL: NOEC (0,5h) > 10000 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: NOEC (14d) 10000 mg/L (Source: ECHA database «Registered substances») Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. The product may lead to foaming in sewage plants. Remark Observe local regulations concerning effluent treatment. Special pre-treatments are necessary.

### 12.2 Persistence and degradability

Biodegradation					
Preparation related information	<u>n</u>				
Readily biodegradable (according to OECD criteria).					
Degradation rate	: ~99,8%				
Test duration	: 28 d				
Analytical method	: BOD (% of COD).				
Method	: On basis of test data.: OECD 301F				
Туре	: Aerobic biological treatment				
Information on ingredients					
2-(2-BUTOXYETHOXY)ETHA	ANOL:				
92% (28d) OECD 30	)1 E				
	le (according to OECD criteria).				
(Source: ECHA database «Registered substances»)					
1-BUTOXY-2-PROPANOL:					
90% (10d) OECD 30					
	le (according to OECD criteria).				
SODIUM-ALKYLETHERSUL	base «Registered substances»)				
>70% (28d) OECD 3	/ · · · <b>=</b> /				
	le (according to OECD criteria).				
(Source: Safety Data	<b>č</b>				
SODIUM-AI PHA-OI FFIN SUI FONATE					
80% (28d) OECD 30	)1 B				
Readily biodegradab	le (according to OECD criteria).				
(Source: ECHA data	base «Registered substances»)				
SODIUM ALKYLSULFOSUC	CINATE:				



	91% (28d) OECD 310
	Readily biodegradable (according to OECD criteria).
	(Source: ECHA database «Registered substances»)
	DODECANOL:
	79% (28d) OECD 301 D
	Readily biodegradable (according to OECD criteria).
	(Source: ECHA database «Registered substances»)
	TETRADECANOL: 82,2% (28d) OECD 301 B
	Readily biodegradable (according to OECD criteria).
	(Source: ECHA database «Registered substances»)
	(
	Chemical oyxgen demand (COD)
	~1390000 mg *O2/L  Concentration : 100% Method DIN EN 38409-H41-1
	~ 13900 mg *O2/L  Concentration : 1% Method DIN EN 38409-H41-1
	Biochemical oxygen demand
	~ 880000 mg *O2/L ► Concentration : 100% Method DIN EN 1899-1 Test duration 5 d
	~ 8800 mg *O2/L ► Concentration : 1% Method DIN EN 1899-1 Test duration 5 d
	BOD5/COD ratio
	63%
12.3	Bioaccumulative potential
12.5	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	2-(2-BUTOXYETHOXY)ETHANOL:
	log Kow < 3
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	1-BUTOXY-2-PROPANOL:
	BCF 3,16
	No indication of bioaccumulation potential. (Source: ECHA database «Registered substances»)
	SODIUM-ALKYLETHERSULFATE:
	log Kow < 3
	No indication of bioaccumulation potential.
	(Source: Safety Data Sheet)
	SODIUM-ALPHA-OLEFIN SULFONATE:
	BCF 70,8
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE:
	log Kow < 3
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	DODECANOL:
	BCF 750
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	TETRADECANOL: BCF 1000
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	. , ,
12.4	Mobility in soil
	If product enters soil, it will be mobile and may contaminate groundwater.



There are no data available on the mixture itself.  formation on ingredients  /?AUTOXYCFTANVS/ETHANOL:  This substance does not meet the PBTNPVB criteria of REACH, Annex XIII.  (Source: Safely Data Sheet)  /#UTOXY-2-PROPANOL:  This substance does not meet the PBTNPVB criteria of REACH, Annex XIII.  (Source: Safely Data Sheet)  SODIUM-ALKYLETHERSULFATE: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) SODIUM-ALKYLSULFOSUCCINATE: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) SODIUM-ALKYLSULFOSUCCINATE: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) SODIUM-ALKYLSULFOSUCCINATE: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) SODICANOL: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) SODICANOL: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) SEACONOL: This substance does not meet the PBTNPVB criteria of REACH, Annex XIII. (Source: Safely Data Sheet) Endocrine disrupting properties  ***********************************	P	reparation related information
PL2_BUTOXYETHOXY/ETHANOL:         This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII.         (Surce: Safety Data Sheet)         PL3_UTOXY-2-PROPANOL:         This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII.         (Surce: Safety Data Sheet)         SODUMALKYLETHERSULFATE:         This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII.         (Surce: Safety Data Sheet)         SODUMALPHA-OLEFIN SULFONATE:         This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII.         (Surce: Safety Data Sheet)         SODUMALXYLSULFOSUCCINATE:         This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII.         (Surce: Safety Data Sheet)         SODUMALXYLSULFOSUCCINATE:         This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         SODECANOL:         This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         Endocrine disrupting properties         Preparation related information         This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII.         (Source: Safety Data Sheet)         Endocrine disrupting properties         Preparation related information         Th	Г	nere are no data available on the mixture itself.
This substance does not meet the PBT/NPB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) #UTXY2_PROPANOL: This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) SODUMALKYLETHERSULFATE: This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) SODUMALKYLETHERSULFATE: This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) SODUMALKYLSULFOSUCCINATE: This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) SODUMALEXYLSULFOSUCCINATE: This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) SODECANOL: This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) SODECANOL: This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) SODECANOL: This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) <b>ETERADECANOL:</b> This substance does not meet the PBT/NPVB criteria of REACH, Annex XIII. (Source: Safety Data Sheet) <b>ETERADECANOL:</b> This substance does not there there there is the there is there is there is the there is there is the there is the there is there is the there is the there is the there is there is there is there is the there is there is there is the there is there is there is there is there is	n	formation on ingredients
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## 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.

: No

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

#### **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 (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. 30			
Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases not applicable			
Regulation (EC) No 2019/1021 [POP/PFOS-Regulation] The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).			
Regulation (EC) No 2020/784 [PFOA-Regulation] The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).			
Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation] The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).			
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			
Chemical Safety Assessment			
Chemical safety assessments for substances in this mixture were not carried out.			

### **SECTION 16: Other information**

15.2

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 VAPUREX FXS PLY 1% F-0 #2150:

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

- H315 Causes skin and eye irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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