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SEC	TION 1: Identification of the	substance/mixture and of the company/undertaking
1.1	Product identifier	
	vapurex [®] LV 1% F-10) #7141
	UFI: V3SM-G0NU-G00M-H9S	
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	ıttingen
	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 mix	xture			
	Classification according to Regulation (EC) No 1272/2008 [CLP] Skin Irrit. 2 H315 - Eye Irrit. 2 H319 - Aquatic Chronic 4 H413					
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.			
		H413	May cause long lasting harmful effects to aquatic life.			
	Precautionary statements	P262	Do not get in eyes, on skin, or on clothing.			
		P273	Avoid release to the environment.			
		P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/			
		P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.			
		P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].			
		P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			





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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 properties Preparation related information				
	There are no data available on the	mixture itself.			
	Information on ingredients				
	1-BUTOXY-2-PROPANOL:				
	This substance does not have endocrine disrupting properties with respect to humans. SODIUM-ALPHA-OLEFIN SULFONATE:				
	This substance does not have endocrine disrupting properties with respect to humans. ALKYLDIMETHYLAMIN-N-OXIDE:				
	This substance does not have endocrine disrupting properties with respect to humans.				
		AS HAZARDOUS SUBSTANCES: nave endocrine disrupting properties with respect to humans.			
		lave endocrine disrupting properties with respect to numaris.			
	Results of PBT and vPvB assess	ment			
	Preparation related information				
	There are no data available on the	mixture itself.			
	Information on ingredients 1-BUTOXY-2-PROPANOL:				
		neet the PBT/vPvB criteria of REACH, Annex XIII.			
	SODIUM-ALPHA-OLEFIN SULFO				
	This substance does not r	neet the PBT/vPvB criteria of REACH, Annex XIII.			
	ALKYLDIMETHYLAMIN-N-OXIDE				
		neet the PBT/vPvB criteria of REACH, Annex XIII.			
		AS HAZARDOUS SUBSTANCES:			
	The substances in the mb	ture do not meet the PBT/vPvB criteria according to REACH, annex XIII.			
	The data refer to the product as del differently.	ivered. The solutions for use produced according to dilution recommendations are to be classified			
	Can harm the aquatic fauna when	entering surface waters.			
		n waste water treatment plants when entering the sewerage system.			
		merged in the foam. Take care when spraying people!			
		always pose a danger to aquatic life because they greatly reduce the surface tension of water thus			
	disrupting all life processes associa hindered by the strong foam format	ted with it. In sewage treatment plants, for example, the necessary aeration of the sewage stages can be			
SEC	TION 3. Composition	/ information on ingredients			
JLU	Tion 5. composition	r mornation on myredients			
3.1	Substances				
	not applicable				
3.2	Mixtures				
	1-BUTOXY-2-PROPANOL				
	CAS No.: 5131-66-8				
	EC No.: 225-878-4				
	REACH No.: 01-2119475527-28-X	XXX			
	Concentration: 5 - 10%	on /EC) No 1979/2008 [CI D]: CHS07: Evo limit 2 Strip limit 2: H215 H240			
	Gassification according to Regulati	on (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2-Skin Irrit. 2; H315-H319			
	SODIUM-ALPHA-OLEFIN SULFC	NATE			
	CAS No.: 68439-57-6				
	EC No.: 931-534-0				





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REACH No.: 01-2119513401-57-XXXX Concentration: 1 - 5%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1-Skin Irrit. 2; H315-H318

ALKYLDIMETHYLAMIN-N-OXIDE

CAS No.: 308062-28-4 EC No.: 931-292-6 REACH No.: 01-2119490061-47-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05-GHS09; Skin Irrit. 2-Eye Dam. 1-Aquatic Acute 1-Aquatic Chronic 2; H315-H318-H400-H411

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES

Concentration: 15 - 20% The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

WATER

CAS No.: 7732-18-5 Concentration: 60 - 78% 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

Description of first aid measures 4.1 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.





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IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

The product itself does not burn.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid Skin contact Eye contact

Wear personal protection equipment (refer to section 8).

Measures to prevent fire

The product is not oxidising Combustible Flammable





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	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.
	When using do not eat, unit, smoke, shin.
7.2	Conditions for safe storage, including any incompatibilities
	Technical measures and storage conditions
	Do not store at temperatures above: +50°C
	Requirements for storage rooms and vessels
	Suitable container/equipment material
	Refined steel
	Polyethylene (PE)
	Unsuitable container/equipment material
	Aluminium
	Light metal
	Copper
	Zinc
	Alloy, containing copper
	Alloy, contains light metal
	Iron.
	Steel
	Hints on joint storage
	Storage class
	12: non-combustible liquids that cannot be assigned to any of the above storage classes
7.3	Specific end use(s)
	Fire-extinguishing foams based on synthetic surfactants
	Do not use for cleaning purposes.
	Decommondation
	Recommendation
	Observe technical data sheet.
SEC	TION 8: Exposure controls/personal protection
8.1	Control parameters
-	

Substance name: ---CAS No.: ---REACH No.: ---Occupational exposure limit values: ---; Limit value type (country of origin): ---

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.





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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

9.1 Information on basic physical and chemical properties

a	Physical state	:	Liquid	
b	Colour	:	colourless / yellow	
C	Odour	:	Glycol, Ether, Surfactant	
d	Melting point/freezing point	:	-10°C	EN 1568:2018
e	Melting point/freezing point	:	> 100°C	DIN 51751
f)	Flammability	:	not applicable	
g	Lower and upper explosion limit/flammability	У		
	limit	:	No data available	
h	Flash point	:	No flash point up to 100 °C.	
i)	Ignition temperature in °C	:	not applicable	
j)	Decomposition temperature	:	No data available	
k)	pH at °C 20	:	6,5 - 8,5	DIN 19268



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	I)	•	at °C	20	:	< 20 mm²/s	DIN 51562	Newton
		â	at °C	-10	:	< 120 mm²/s	DIN 51562	Newton
	m)	Solubility			:	Water: completely miscible	OECD 105	
	n)	Partition coefficient n-octanol/water (log						
		value)			:	not applicable		
	0)	Vapour pressure			:	No data available		
	p)	Density and/or relative		~~			DIN 40704	
		•	at °C	20	:	1,050 - 1,090 g/ml	DIN 12791	
	q)	Relative vapour density			:	No data available		
	r)	particle characteristics			:	not applicable		
9.2		Other information						
	Inf	ormation with regard f	o physical	hazar	d d	classes		
	a)	Explosives			:	not applicable		
	b)	Explosives			:	not applicable		
	C)	Aerosols			:	not applicable		
	d)	Oxidising gas			:	not applicable		
	e)	Gases under pressure			:	not applicable		
	f)	Flammable liquids			:	not applicable		
	g)	Flammable solids			:	not applicable		
	h)	Self-reactive substances a	and mixtures		:	not applicable		
	i)	Pyrophoric liquids			:	not applicable		
	j)	Pyrophoric solids			:	not applicable		
	k)	Self-heating substances a			:	not applicable		
	I)	Substances or mixtures w		ct with	I			
		water, emit flammable gas	es		:	not applicable		
		Oxidising liquids			:	not applicable		
	n)	Oxidizing solids			:	not applicable		
	0)	Organic peroxides			:	not applicable		
	p)	Corrosive to metals			:	See section 7 of the safety data sheet.		
	q)	Desensitised explosives		:	not applicable			
	Ot	her safety characterist	ics					
	a)	Mechanical sensitivity			:	not applicable		
	b)	Self-accelerating polymeri (SAPT)	isation temper	rature	:	not applicable		
	C)	formation of explosible du	st/air mixture	s	:	not applicable		
	d)	acid/alkaline reserve			:	not applicable		
	e)	Evaporation rate			:	No data available		
	f)	miscibility			:	Water: completely miscible		
	g)	Conductivity			:	~ 5000 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 potentia	l		:	not applicable		
	I)	photocatalytic properties			:	not applicable		
		ditional hazards			-	de constant de la const		
	Breathing is not possible whilst submerged in the foam. Take care when spraying people!							

SECTION 10: Stability and reactivity





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10.1	Reactivity
	Materials to avoid
	Alkali (lye), concentrated
	Alkali metals
	Acid, concentrated
	Oxidising agent, strong
	Reducing agent, strong
	Acid halides
10.2	Chemical stability
	No special measures are necessary.
10.3	Possibility of hazardous reactions
	No special measures are necessary.
10.4	Conditions to avoid
	Do not store at temperatures above: +50°C
10.5	Incompatible materials
	See section 7. No additional measures necessary.
10.6	Hazardous decomposition products

SECTION 11: Toxicological information

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

	•	
a) Acute toxic		
Acute oral toxic	ity	
Preparation related	ed information	
LD50	> 2000 mg/kg	The acute oral toxicity is corresponding to GHS-category 5.
Species	Rat	
Method	On basis of test da	ata.: OECD 420
Information on in	<u>gredients</u>	
1-BUTOXY-2-PF	ROPANOL:	
•	14d) 3300 mg/kg ==>	
		esponding to GHS-category 5.
•		egistered substances»)
002.0	A-OLEFIN SULFONA	
•	14d) > 2300 mg/kg ==	
		esponding to GHS-category 5.
•	2: ECHA database «Ri YI AMIN-N-OXIDE [,]	egistered substances»)
	14d) 1064 mg/kg ==>	
	,	esponding to GHS-category 5.
	•	egistered substances»)
		S HAZARDOUS SUBSTANCES:
The sub	ostances are not class	ified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
No clas	sification in the above	-mentioned hazard class
	: Safety Data Sheet)	



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There are no data available on the mixture itself.	
Information on ingredients	
1-BUTOXY-2-PROPANOL:	
LC50 (14d) > 2000 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
SODIUM-ALPHA-OLEFIN SULFONATE:	
LD50 (14d) > 2200 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
ALKYLDIMETHYLAMIN-N-OXIDE:	
LD50 (14d) > 2000 mg/kg ==>	
The acute dermal 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 inhalation toxicity	
Preparation related information	
There are no data available on the mixture itself.	
Information on ingredients	
1-BUTOXY-2-PROPANOL:	
NOEC (4h) 651 ppm; LC50 (4h) > $3,5 \text{ mg/L} ==>$	
The acute inhalation toxicity related to vapours is corresponding to GHS-category 5.	
(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»)	
ALKYLDIMETHYLAMIN-N-OXIDE:	
No data available	
No information available. No classification in the above-mentioned hazard class	
(Source: Safety Data Sheet)	
INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:	
The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].	
No classification in the above-mentioned hazard class	
(Source: Safety Data Sheet)	
b) Skin corrosion/irritation	
Preparation related information	
Causes skin irritation.	
Species Albino rabbit	
Method On basis of test data.: OECD 404	
Information on ingredients	
1-BUTOXY-2-PROPANOL: Causes skin irritation.	
(Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE:	
Causes skin irritation.	
(Source: Safety Data Sheet)	
ALKYLDIMETHYLAMIN-N-OXIDE:	
Causes skin irritation.	
(Source: Safety Data Sheet)	
INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:	



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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-BUTOXY-2-PROPANOL: Causes serious eye irritation. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: Causes serious eye damage. (Source: Safety Data Sheet) ALKYLDIMETHYLAMIN-N-OXIDE: Causes serious eye damage. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: non-irritant. (Source: Safety Data Sheet) d) Respiratory or skin sensitisation Preparation related information There are no data available on the mixture itself. Information on ingredients 1-BUTOXY-2-PROPANOL: not sensitising. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: not sensitising. (Source: Safety Data Sheet) ALKYLDIMETHYLAMIN-N-OXIDE: not sensitising. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: not sensitising. (Source: Safety Data Sheet)

e) Germ cell mutagenicity

Preparation related information There are no data available on the mixture itself. Information on ingredients 1-BUTOXY-2-PROPANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) ALKYLDIMETHYLAMIN-N-OXIDE: 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 Preparation related information There are no data available on the mixture itself. Information on ingredients 1-BUTOXY-2-PROPANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) ALKYLDIMETHYLAMIN-N-OXIDE: No indication of human carcinogenicity. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: 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 1-BUTOXY-2-PROPANOL: 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) ALKYLDIMETHYLAMIN-N-OXIDE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) h) STOT-single exposure Preparation related information There are no data available on the mixture itself. Information on ingredients 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) ALKYLDIMETHYLAMIN-N-OXIDE: 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



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1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) ALKYLDIMETHYLAMIN-N-OXIDE: No known symptoms to date. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet) j) Aspiration hazard Preparation related information There are no data available on the mixture itself. Information on ingredients 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) ALKYLDIMETHYLAMIN-N-OXIDE: 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-BUTOXY-2-PROPANOL: 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) ALKYLDIMETHYLAMIN-N-OXIDE: 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

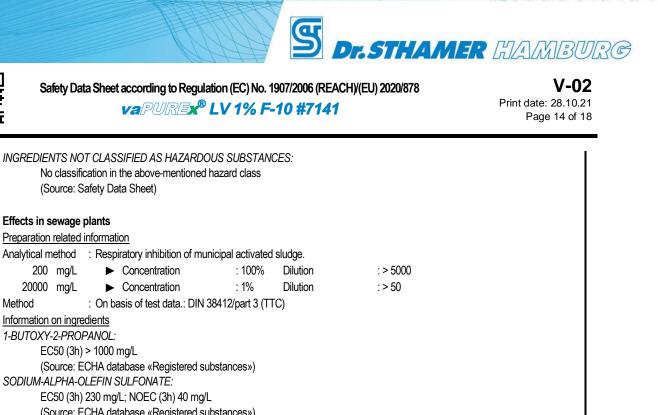
Acute (short-term) fish toxicity



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	1.070	400	
Effective dose	LC50		mg/L
Exposure time		: 96 h	
Species		: Leuciscus	idus (golden orfe)
Method		: On basis o	f test data .: OECD 203
Information on ingred			
1-BUTOXY-2-PROP	ANOL:		
LC50 (96h)	•		
``		•	substances»)
SODIUM-ALPHA-OL		ONATE:	
LC50 (96h)	-		
,		-	substances»)
		E:	
LC50 (96h)		. "Decistered	substances»)
			DOUS SUBSTANCES:
			ed hazard class
	afety Data Sh		su nazalu Glass
Acute (short-term)	lovicity to c	ruetacea	
Preparation related in	-	ustacca	
Effective dose	EC50	: ~ 30	mg/L
Exposure time	LOUU	: 48 h	Шу́с
Species			agna (Big water flea)
Method		-	f test data: OFCD 202
	lianta	. On Dasis 0	TIESI Udid OEGD 202
Information on ingred 1-BUTOXY-2-PROP			
	> 1000 mg/		
()	•		substances»)
SODIUM-ALPHA-OL		•	Substances//
LC50 (48h)		UNATE.	
		e «Reaistered	substances»)
ALKYLDIMETHYLA		-	,
EC50 (48h)	3,1 mg/L		
	-	se «Registered	substances»)
. ,			DOUS SUBSTANCES
(Source: EC	CLASSIFIE	D AS HAZAR	D00000000001/11/0E0.
(Source: EC			ed hazard class
(Source: EC INGREDIENTS NOT No classific		above-mention	
(Source: EC INGREDIENTS NOT No classific	ation in the a	above-mention	
(Source: EC INGREDIENTS NOT No classific (Source: Sa	ation in the a afety Data Sh	above-mention neet)	ed hazard class
(Source: EC INGREDIENTS NOT No classific (Source: Sa Acute (short-term)	ation in the a afety Data Sh t oxicity to a l	above-mention neet)	ed hazard class
(Source: EC INGREDIENTS NOT No classific (Source: Sa Acute (short-term) f Preparation related in	ation in the a afety Data Sh toxicity to a aformation	above-mention neet)	ed hazard class
(Source: EC INGREDIENTS NOT No classific (Source: Sa Acute (short-term) f Preparation related in Effective dose	ation in the a afety Data Sh toxicity to a aformation	above-mention neet) Igae and cyar	ed hazard class
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(Source: EC INGREDIENTS NOT No classific (Source: Sa Acute (short-term) f Preparation related in Effective dose Exposure time Species Method Information on ingred 1-BUTOXY-2-PROP EC50 (96h)	ation in the a afety Data Sh toxicity to al <u>information</u> EC50 <u>dients</u> <u>ANOL:</u> > 1000 mg/	above-mention neet) Igae and cyar : ~ 0,5 : 72 h : Scenedesr : On basis o L; NOEC (96h)	ed hazard class nobacteria mg/L nus subspicatus f test data.: OECD 201
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(Source: EC INGREDIENTS NOT No classific (Source: Sa Acute (short-term) f Preparation related in Effective dose Exposure time Species Method Information on ingred 1-BUTOXY-2-PROP EC50 (96h) (Source: EC SODIUM-ALPHA-OL EC50 (48h) (Source: EC	ation in the a atifety Data St toxicity to al <u>nformation</u> EC50 <u>dients</u> ANOL: > 1000 mg/l CHA databas <i>LEFIN SULF</i> 45 mg/L CHA databas <i>MIN-N-OXID</i>	above-mention neet) Igae and cyar : ~ 0,5 : 72 h : Scenedesr : On basis o L; NOEC (96h) se «Registered ONATE: se «Registered E:	ed hazard class nobacteria mg/L mus subspicatus f test data.: OECD 201) 569 mg/L substances»)
(Source: EC INGREDIENTS NOT No classific (Source: Sa Acute (short-term) f Preparation related in Effective dose Exposure time Species Method Information on ingred 1-BUTOXY-2-PROP EC50 (96h) (Source: EC SODIUM-ALPHA-OL EC50 (48h) (Source: EC ALKYLDIMETHYLA EC50 (72h)	ation in the a atifety Data St toxicity to al <u>nformation</u> EC50 <u>dients</u> ANOL: > 1000 mg/l CHA databas <i>LEFIN SULF</i> 45 mg/L CHA databas <i>MIN-N-OXID</i> 0,143 mg/L;	above-mention neet) Igae and cyar : ~ 0,5 : 72 h : Scenedesr : On basis o L; NOEC (96h) se «Registered ONATE: se «Registered E: ; NOEC (72h)	ed hazard class nobacteria mg/L mus subspicatus f test data.: OECD 201) 569 mg/L substances»)



EC50 (3h) 230 mg/L; NOEC (3h) 40 mg/L (Source: ECHA database «Registered substances») ALKYLDIMETHYLAMIN-N-OXIDE: NOEC (18h) 24 mg/L (Source: ECHA database «Registered substances») INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No classification in the above-mentioned hazard class (Source: Safety Data Sheet)

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.

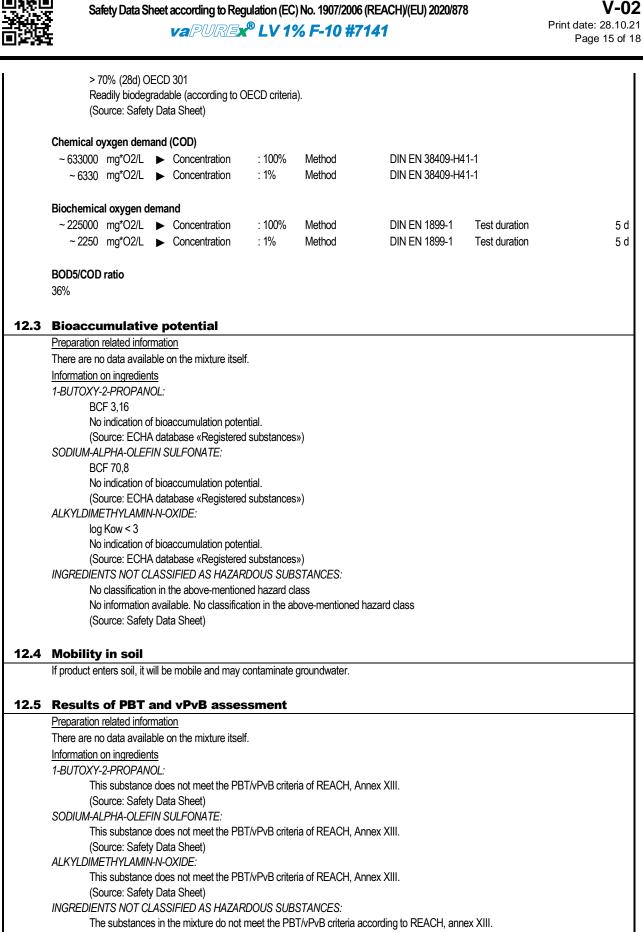
Remark

Observe local regulations concerning effluent treatment. Special pre-treatments are necessary.

12.2 Persistence and degradability

Biodegradation

•					
Preparation related information					
Readily biodegradable (accordin	ng to OECD criteria).				
Degradation rate	: ~ 82,9%				
Test duration	: 28 d				
Analytical method	: BOD (% of COD).				
Method	: On basis of test data.: OECD 301F				
Туре	: Aerobic biological treatment				
Information on ingredients					
1-BUTOXY-2-PROPANOL:					
90% (10d) OECD 301	E				
Readily biodegradable	e (according to OECD criteria).				
(Source: ECHA database «Registered substances»)					
SODIUM-ALPHA-OLEFIN SUL	FONATE:				
80% (28d) OECD 301	В				
Readily biodegradable (according to OECD criteria).					
(Source: ECHA databa	ase «Registered substances»)				
ALKYLDIMETHYLAMIN-N-OXI	DE:				
90% 28d) OECD 301	В				
Readily biodegradable (according to OECD criteria).					
(Source: ECHA database «Registered substances»)					
INGREDIENTS NOT CLASSIF	IED AS HAZARDOUS SUBSTANCES:				



(Source: Safety Data Sheet)



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There are no data available on the mixture itself. Information on ingredients 1-BUTOXY-2-PROPANOL: 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) ALKYLDIMETHYLAMIN-N-OXIDE: 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

SECTION 13: Disposal considerations

12.6 Endocrine disrupting properties Preparation related information

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

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

Waste code packaging

WASTE PACKAGING: ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT 15 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)





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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

Marine pollutant : No

14.6 Special precautions for user

none

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. 10

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]



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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

This product is not classified according to StörfallVO.

Water hazard class

obviously hazardous to water (WGK 2) 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 VAPUREX LV 1% F-10 #7141:

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)

- H315Causes skin and eye irritation.H318Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.