



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878 vaPUREx[®] AR 1/3 F-5 #8441



1.1	Product identifier		
	vapurex [®] AR 1/3 F-5	#8441	
	UFI: PQCR-F0XW-N00Y-F3AG	1	
1.2	Relevant identified uses of the	substance or mixture and uses advised again	st
	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 Eye Irrit. 2 H319			
2.2	Label elements			
	Labelling according to Regul	ation (EC) No. 1272/2008	[CLP]	
	Hazard pictograms			
	Signal word	WARNING	~	
	Hazard statements	H319	Causes serious eye irritation.	
	Precautionary statements	P262	Do not get in eyes, on skin, or on clothing.	
		P280	Wear protective gloves/protective clothing, protection/	/eye protection/face protection/hearing
		P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT ir	nduce vomiting.
		P303+P361+P353	IF ON SKIN (or hair): Take off immediately water [or shower].	/ all contaminated clothing. Rinse skin with
		P305+P351+P338		or several minutes. Remove contact lenses,
vision d	late: 07.07.2023		Version: V06	Replaces: 26.05.2023 (V0





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 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. OCTYLSULFATE: This substance does not have endocrine disrupting properties with respect to humans. DECYLSULFATE: This substance does not have endocrine disrupting properties with respect to humans. COCOAMIDOPROPYL HYDROXYSULTAINE: This substance does not have endocrine disrupting properties with respect to humans. INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: This substance does not have endocrine disrupting properties with respect to humans. Results of PBT and vPvB assessment Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. OCTYLSULFATE: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. DECYLSULFATE: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. COCOAMIDOPROPYL HYDROXYSULTAINE: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The data refer to the product as delivered. The solutions for use produced according to dilution recommendations are to be classified differently. Can harm the aquatic fauna when entering surface waters. Can harm the bacteria population in waste water treatment plants when entering the sewerage system. Breathing is not possible whilst submerged in the foam. Take care when spraying people! Concentrated surfactant solutions always pose a danger to aquatic life because they greatly reduce the surface tension of water thus disrupting all life processes associated with it. In sewage treatment plants, for example, the necessary aeration of the sewage stages can be hindered by the strong foam formation. **SECTION 3: Composition/information on ingredients** 3.1 **Substances**

not applicable

3.2 Mixtures

2-(2-BUTOXYETHOXY)ETHANOL CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44-XXXX Concentration: 5 - 10% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2; H319

OCTYLSULFATE CAS No.: 142-31-4

EC No.: 205-535-5



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

DECYLSULFATE

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

COCOAMIDOPROPYL HYDROXYSULTAIN

CAS No.: 91648-19-0 EC No.: 293-878-1 REACH No.: 01-2120765740-52-XXXX Concentration: 0,25 - 2,5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1-Aquatic Chronic 3; H318-H412

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES

Concentration: 10 - 15% The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

WATER

CAS No.: 7732-18-5 Concentration: 62,5 - 82,75% 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.

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

SECTION 4: First aid measures

4.1	Description of first aid measures
	General information
	Remove contaminated, saturated clothing immediately.
	Wash thoroughly the body (shower or bath).
	Observe risk of aspiration if vomiting occurs.
	When in doubt or if symptoms are observed, get medical advice.
	Following inhalation
	Provide fresh air.
	Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.
	In case of skin contact
	Wash immediately with:: Water
	After eye contact
	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
	Following ingestion
	Do NOT induce vomiting.
	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
4.2	Most important symptoms and effects, both acute and delayed
	Dizziness

Nausea



Gastrointestinal complaints

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the substance or mixture

The product itself does not burn.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid

Skin contact

Eye contact

Wear personal protection equipment (refer to section 8).

Measures to prevent fire

The product is not

oxidising



	Combustible
	Flammable
	Explosive
	Highly flammable
	No special fire protection measures are necessary.
	Environmental precautions
	Shafts and sewers must be protected from entry of the product.
	Advices on general occupational hygiene
	When using do not eat, drink, smoke, sniff.
7.2	Conditions for safe storage, including any incompatibilities
	Technical measures and storage conditions
	Do not store at temperatures above: +50°C
	Requirements for storage rooms and vessels
	Suitable container/equipment material
	Refined steel
	Polyethylene (PE)
	Unsuitable container/equipment material
	Aluminium
	Light metal
	Copper
	Zinc
	Alloy, containing copper
	Alloy, contains light metal
	Iron.
	Steel
	Hints on joint storage
	Storage class
	12: non-combustible liquids that cannot be assigned to any of the above storage classes
7.3	Specific end use(s)
	Fire-extinguishing foams based on synthetic surfactants
	Do not use for cleaning purposes.
	Recommendation
	Observe technical data sheet.
SEC	TION 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)

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

Physical state	:	Liquid	
Colour	:	colourless / yellow	
Odour	:	Glycol, Ether, Surfactant	
Melting point/freezing point	:	-5°C	EN 1568:2018
Boiling point or initial boiling point and boilin	q :	> 100°C	DIN 51751



	Ð	range Elemmobility		natannliachla		
	f) av	Flammability Lower and upper explosion limit/flammability	:	not applicable		
	g)	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		
	J) k)	pH at °C 20	÷	6.5 - 8.5	DIN 19268	
	r,) I)	Viscosity at °C 20	÷	< 660(290) mPa*s @ 75(375) 1/s	DIN 19200 DIN 53019	structure viscous
	"	at °C -5	:		DIN 53019 DIN 53019	structure viscous
	m)	Solubility -5	÷	< 1540(700) mPa*s @ 75(375) 1/s	OECD 105	Structure viscous
	m) n)	Partition coefficient n-octanol/water (log	•	Water: completely miscible	OECD 105	
	11)	value)		not applicable		
	o)	Vapour pressure	:	No data available		
	с) р)	Density and/or relative	•			
	r)	density 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	Ot	her information				
		ormation with regard to physical hazar	d d	lasses		
	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		
	ý g)	Flammable solids	:	not applicable		
	h)	Self-reactive substances and mixtures	:	not applicable		
	í)	Pyrophoric liquids	:	not applicable		
	j)	Pyrophoric solids	:	not applicable		
	<i>i</i> /k)	Self-heating substances and mixtures	:	not applicable		
	I)	Substances or mixtures which, in contact with	1			
	,	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	:	~ 7100 µS/cm		
	h)	Corrosiveness	:	Skin corrosion/irritation: none		
				Serious eye damage/irritation: irritant.		
	i)	gas group	:	not applicable		
	j)	Redox potential	:	not applicable		
	k)	radical formation potential	:	not applicable		
	I)	photocatalytic properties	:	not applicable		



Additional hazards

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

SEC	FION 10: Stability and reactivity
10.1	Reactivity
	Materials to avoid
	Alkali (lye), concentrated
	Alkali metals
	Acid, concentrated
	Oxidising agent, strong
	Reducing agent, strong
	Acid halides
10.2	Chemical stability
	No special measures are necessary.
10.3	Possibility of hazardous reactions
	No special measures are necessary.
10.4	Conditions to avoid
	Do not store at temperatures above: +50°C
10.5	Incompatible materials
	See section 7. No additional measures necessary.
40.0	Hazardous decomposition products

SECTION 11: Toxicological information

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

a) Acute toxicit	у	
Acute oral toxicit	у	
Preparation related	d information	
LD50	> 2000 mg/kg	The acute oral toxicity is corresponding to GHS-category 5.
Species	Rat	
Method	On basis of test da	ta.: OECD 420
Information on ingr	redients	
2-(2-BUTOXYETH	IOXY)ETHANOL:	
LD50 (14	d) 5530 mg/kg ==>	
The acute	e oral toxicity is corre	sponding to GHS-category 5.
(Source:	ECHA database «Re	egistered substances»)
OCTYLSULFATE:	•	
· · ·	d) > 2000 mg/kg ==	
	•	sponding to GHS-category 5.
		egistered substances»)
DECYLSULFATE:		
· ·	d) 1200 mg/kg ==>	
	f swallowed.	··· · · · · · · · · · · · · · · · · ·
· ·		egistered substances»)
	OPYL HYDROXYSU	LTAINE:
•	d) 2950 mg/kg ==>	
		sponding to GHS-category 5.
(Source:	ECHA database «Re	egistered 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 2-(2-BUTOXYETHOXY)ETHANOL: LD50 (1d) 2764 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») OCTYLSULFATE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») DECYLSULFATE: LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») COCOAMIDOPROPYL HYDROXYSULTAINE: 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) 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») OCTYLSULFATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) DECYLSULFATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: 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 non-irritant. Albino rabbit Species



Method On basis of test data .: OECD 404 Information on ingredients 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) COCOAMIDOPROPYL HYDROXYSULTAINE: 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. Albino rabbit Species On basis of test data .: OECD 404 Method Information on ingredients 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) COCOAMIDOPROPYL HYDROXYSULTAINE: 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 2-(2-BUTOXYETHOXY)ETHANOL: not sensitising. (Source: Safety Data Sheet) OCTYLSULFATE: not sensitising. (Source: Safety Data Sheet) DECYLSULFATE: not sensitising. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: 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 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) COCOAMIDOPROPYL HYDROXYSULTAINE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) f) Carcinogenicity Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) OCTYLSULFATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) DECYLSULFATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: 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 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) OCTYLSULFATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) DECYLSULFATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: 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 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) COCOAMIDOPROPYL HYDROXYSULTAINE: 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 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)

COCOAMIDOPROPYL HYDROXYSULTAINE: 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 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) COCOAMIDOPROPYL HYDROXYSULTAINE: 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 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) COCOAMIDOPROPYL HYDROXYSULTAINE: 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

Preparation related in						
	formation					
Effective dose	LC50	: ~ 900	mg/L			
Exposure time		: 96 h				
Species		: Leuciscus	idus (golden orfe)			
Method		: On basis o	of test data .: OECD	203		
Information on ingrea	<u>ients</u>					
2-(2-BUTOXYETHO	XY)ETHANC	DL:				
LC50 (96hr	1300mg/L					
· · ·	CHA databas	e «Registereo	d substances»)			
OCTYLSULFATE:						
· · ·	•	NOEC (96h)	•			
	CHA databas	e «Registered	d substances»)			
DECYLSULFATE:	40 "					
LC50 (48h)	•	D				
(Source: EC		•	d substances»)			
LC50 (96h)		(1SULTAINE				
· · ·	✓ I IIIg/L fety Data Sh	(apt)				
INGREDIENTS NOT	,	,	20011S SUBSTAN	CES		
			ed hazard class	020.		
	fety Data Sh					
(,				
Acute (short-term)	oxicity to a	quatic inverte	ebrates			
Preparation related in	formation					
Effective dose	EC50	:~590	mg/L			



Species		: Daphnia m	nagna (Big water flea)
Method		: On basis c	f test data.: OECD 202
Information on in			
2-(2-BUTOXYET	,		
,	48hr) > 1101 mg		
(Source	e: ECHA databas	se «Registered	l substances»)
OCTYLSULFAT			
,	48h) > 100 mg/L	, ,	-
	e: ECHA databas	se «Registered	I substances»)
DECYLSULFAT			
	48h) > 100 mg/L		
COCOAMIDOPI	e: ECHA databas		
	48h) 11 mg/L; N		
	e: ECHA databas		
			DOUS SUBSTANCES:
	sification in the a		
	e: Safety Data Sl		
(000.00			
Acute (short-ter	m) toxicity to a	Igae and cya	nobacteria
Preparation relat			
Effective dose		: ~ 100	mg/L
Exposure time		:72 h	Ū
Species		: Scenedes	mus subspicatus
Method			of test data.: OECD 201
Information on in	aredients		
2-(2-BUTOXYET	-	OL:	
•	72h) 1 101 mg/L		
,	: ECHA databas		l substances»)
OCTYLSULFAT		0	,
EC50 (72h) > 511 mg/L	; NOEC (72h)	199 mg/L
(Source	e: ECHA databas	se «Registered	l substances»)
DECYLSULFAT	E:		
,	72h) 8,64 mg/L;	. ,	-
	e: ECHA databas	•	,
COCOAMIDOPI			
	72h) 0,32 mg/L;		
•	e: ECHA databas	•	a substances»)
	sification in the a	-	
	e: Safety Data Sł		eu nazaru Gass
(Source		ieel)	
Effects in sewa	ne nlants		
Preparation relat	• •		
		v inhibition of	municipal activated sludge.
1000 mg		centration	: 100% Dilution
100000 mg		centration	: 1% Dilution
Method			IN 38412/part 3 (TTC)
IVICIIIUU			
		JI ·	
Information on in	'H()XY)FIHΔM	JL.	
Information on in 2-(2-BUTOXYET	,		
Information on in 2-(2-BUTOXYET NOEC	(0,5h) 1995 mg/l		l substances»)
Information on in 2-(2-BUTOXYET NOEC (Source	(0,5h) 1995 mg/l e: ECHA databas		l substances»)
Information on in 2-(2-BUTOXYET NOEC (Source OCTYLSULFAT	(0,5h) 1995 mg/l e: ECHA databas E:		ł substances»)
Information on in 2-(2-BUTOXYET NOEC (Source OCTYLSULFAT EC50 ((0,5h) 1995 mg/l e: ECHA databas E: 3h) 135 mg/L	se «Registered	
Information on in 2-(2-BUTOXYET NOEC (Source OCTYLSULFAT EC50 ((0,5h) 1995 mg/l e: ECHA databas E: 3h) 135 mg/L e: ECHA databas	se «Registered	
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: > 1000 : > 10



COCOAMIDOPROPYL HYDROXYSULTAINE:



	COCOAMIDOPROPYLH		:				
	No data available						
	(Source: Safety I	,					
	INGREDIENTS NOT CLA	SSIFIED AS HAZAR	DOUS SUB	STANCES:			
	No classification	in the above-mention	ed hazard c	lass			
	(Source: Safety I	Data Sheet)					
	Technically correct release	es of minimal concen	trations to ac	dapted biological	l sewage plants will not d	isturb the biodegradabilit	v of activated
	sludge.				r sewage plants, will not a		y of activated
	The product may lead to fe	oaming in sewage pla	ants.				
	Remark						
	Observe local regulations	-	eatment.				
	Special pre-treatments are	e necessary.					
12.2	Persistence and	degradability					
	Biodegradation						
	Preparation related inform	lation					
	Readily biodegradable (ac	cording to OECD crit	eria).				
	Degradation rate	: ~87,1%					
	Test duration	: 28 d					
	Analytical method	: BOD (% of C	OD).				
	Method	: On basis of t		-CD 301F			
	Туре	: Aerobic biolo					
	••		iyical li call li	ent			
	Information on ingredients						
	2-(2-BUTOXYETHOXY)E						
	92% (28d) OECI			``			
		dable (according to C		,			
		database «Registered	d substances	s»)			
	OCTYLSULFATE:						
	93,5% (29d) OE						
		adable (according to C		,			
	,	database «Registered	d substances	s»)			
	DECYLSULFATE:						
	92% (30d) OECI						
		adable (according to C		,			
		database «Registered		s»)			
	COCOAMIDOPROPYL H		:				
	71% (28d) OECI						
		adable (according to C		,			
	,	database «Registered		,			
	INGREDIENTS NOT CLA		DOUS SUB	STANCES:			
	> 70% (28d) OE						
		adable (according to C	DECD criteria	a).			
	(Source: Safety I	Data Sheet)					
	Chemical oyxgen demai	nd (COD)					
	~ 505300 mg *O2/L	 Concentration 	: 100%	Method	DIN EN 38409-H4	1-1	
	~ 5050 mg *O2/L		: 1%	Method	DIN EN 38409-H4	1-1	
	0000						
	Biochemical oxygen der	mand					
	~231667 mg *O2/L	 Concentration 	: 100%	Method	DIN EN 1899-1	Test duration	5 d
	~2310 mg *O2/L j	 Concentration 	: 1%	Method	DIN EN 1899-1	Test duration	5 d
	BOD5/COD ratio						
	46%						
	U/UT						



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»)
	OCTYLSULFATE:
	log Pow <-2.31
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	DECYLSULFATE:
	log Pow 1.72
	No indication of bioaccumulation potential. (Source: ECHA database «Registered substances»)
	COCOAMIDOPROPYL HYDROXYSULTAINE:
	No data available
	No information available. No classification in the above-mentioned hazard class
	(Source: Safety Data Sheet)
	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)
40.4	
12.4	Mobility in soil If product enters soil, it will be mobile and may contaminate groundwater.
	n product enters son, it will be mobile and may contaminate groundwater.
12.5	Results of PBT and vPvB assessment
1210	
	Preparation related information
	Preparation related information There are no data available on the mixture itself.
	Preparation related information There are no data available on the mixture itself. Information on ingredients
	Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL:
	Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL:
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DECYLSULFATE: This substance

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. (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

13.1 Waste treatment methods

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

Waste codes/waste designations according to EWC/AVV

Waste code product

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

Waste code packaging

- 15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT
- OTHERWISE SPECIFIED

1501 packaging (including separately collected municipal packaging waste)

150110* packaging containing residues of or contaminated by dangerous substances

Remark

Delivery to an approved waste disposal company.

Send to a hazardous waste incinerator facility under observation of official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

none

14.2 UN proper shipping name

not applicable

14.3 Transport hazard class(es)

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

Inland waterway craft (ADN)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

14.4 Packing group

not applicable



14.5	Environmental	hazards
1-110		IIGHEGI GO

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 (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. 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]

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

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

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

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

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

Classification for the 1%/3% application solution of VAPUREX AR 1/3 F-5 #8441:

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

Full text of Hazard- and EU Hazard-statements

- H302 Harmful if swallowed or if inhaled.
- H315 Causes skin and eye irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

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