



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878





1.1	Product identifier	
	STHAMEX [®] -IAF MAR	INE 1% F-10 #9146
	UFI: R7AT-90JS-K00U-TS56	
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

SECTION 2: Hazards identification

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

2.1 **Classification of the substance or mixture** Classification according to Regulation (EC) No 1272/2008 [CLP] Skin Irrit. 2 H315 - Eye Dam. 1 H318 2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms DANGER Signal word Hazard statements Causes skin and eye irritation. H315 H318 Causes serious eye damage. Precautionary statements P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/.... P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].



Classification procedure Calculation method. 2.3 Other hazards Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not have endocrine disrupting properties with respect to hu 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to hu 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to hu TRIETHANOLAMMONIUM-LAURYLSULFATE: This substance does not have endocrine disrupting properties with respect to hu COCOAMIDOPROPYL HYDROXYSULTAINE: This substance does not have endocrine disrupting properties with respect to hu SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: This substance does not have endocrine disrupting properties with respect to hu SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: This substance does not have endocrine disrupting properties with respect to hu	with water for several minutes. Remove contact lenses, tinue rinsing.
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Results of PBT and vPvB assessment	nans.
Preparation related information There are no data available on the mixture itself. <u>Information on ingredients</u> 1,2-ETHANDIOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. 1-BUTOXY-2-PROPANOL:	
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SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
The data refer to the product as delivered. The solutions for use produced according to dil Can harm the aquatic fauna when entering surface waters.	ution recommendations are to be classified differently.
Can harm the bacteria population in waste water treatment plants when entering the sewe	rage 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 great	
all life processes associated with it. In sewage treatment plants, for example, the necessa the strong foam formation.	

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

1,2-ETHANDIOL CAS No.: 107-21-1 EC No.: 203-473-3 REACH No.: 01-2119456816-28-XXXX Concentration: 5 - 10%



Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS08; Acute Tox. 4-STOT RE 2; H302-H373.8

2-(2-BUTOXYETHOXY)ETHANOL

CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44-XXXX Concentration: 5 - 10% 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: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Skin Irrit. 2-Eye Irrit. 2; H315-H319

TRIETHANOLAMMONIUM-LAURYLSULFATE

CAS No.: 85665-45-8 EC No.: 288-134-8 REACH No.: 01-2119966908-16-XXXX Concentration: 5 - 10% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05-GHS07; Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2-STOT SE 3-Aquatic Chronic 3; H302-H315-H318-H332-H335-H412

COCOAMIDOPROPYL HYDROXYSULTAIN

CAS No.: 91648-19-0 EC No.: 293-878-1 REACH No.: 01-2120765740-52-XXXX Concentration: 10 - 15% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1-Aquatic Chronic 3; H318-H412

NATRIUM-3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE

CAS No.: 14960-06-6 EC No.: 239-032-7 REACH No.: 01-2119976233-35-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1; H315-H318

WATER

CAS No.: 7732-18-5 Concentration: 45 - 73% 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

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.
.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
.3	Specific end use(s)
	Fire-extinguishing foams based on synthetic surfactants
	Do not use for cleaning purposes.
	Recommendation
	Observe technical data sheet.



	Control parameters	
	Substance name: 1,2-ETHANDIOL	
	CAS No.: 107-21-1	
	REACH No.: 01-2119456816-28-XXXX	
	United Kingdom	
	Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (EN)	
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (EN) European Union	
	Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (EC)	
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (EC)	
	Germany	
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): AGW (DE)	
	short-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): Peak (DE)	
	Ireland	
	Long-term occupational exposure limit value: 20 ppm; Limit value type (country of origin): TWA (IE)	
	short-term occupational exposure limit value: 40 ppm; Limit value type (country of origin): STEL (IE)	
	Substance name: 2-(2-BUTOXYETHOXY)ETHANOL CAS No.: 112-34-5	
	REACH No.: 01-2119475104-44-XXXX	
	United Kingdom	
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EN)	
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EN)	
	European Union	
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EC)	
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EC)	
	Germany	
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): AGW (DE)	
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): Peak (DE)	
	Ireland	
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (IE)	
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (IE)	
8.2	Exposure controls	
0.2	Advices on general occupational hygiene	
	Minimum standard for preventive measures while handling with working materials are specified in the TRGS 50	0
	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	
	Hand protection Suitable gloves type	
	-	
	Suitable gloves type	





Butyl caoutchouc (butyl rubber) Breakthrough time 120 min. Thickness of the glove material > 0.6 mm Recommended glove articles EN ISO 374

Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection

Body protection: not required.

Respiratory protection

Usually no personal respirative protection necessary.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

a)	Physical state			:	Liquid			
b)	Colour			:	colourless / yellow			
c)	Odour			:	Glycol, Ether, Surfactant			
d)	Melting point/freezin	g point		:	-10°C	EN 1568:2018	3	
e)	Boiling point or initia	al boiling point a	and boiling	3				
	range			:	> 100°C	DIN 51751		
f)	Flammability			:	not applicable			
g)		plosion limit/fla	mmability					
	limit			:	No data available			
h)	h) Flash point i) Ignition temperature in °C				No flash point up to 100 °C.			
i)					not applicable			
j)	Decomposition temp			:	No data available			
k)	-	at °C	20	:	6,5 - 8,5	DIN 19268		
I)	Viscosity	at °C	20	:	< 50 mm²/s	DIN 51562	Newton	
		at °C	-10	:	< 200 mm²/s	DIN 51562	Newton	
m	,			:	Water: completely miscible	OECD 105		
n)		n-octanol/water	· (log					
	value)			:	not applicable			
o)				:	No data available			
p)	•							
	density	at °C	20	:	1,030 - 1,070 g/ml	DIN 12791		
q)	•	-		:	No data available			
r)	particle characteristi	CS		:	not applicable			
2 0	ther information	1						
In	formation with reg	ard to physi	cal haza	rd o	classes			
a)	Explosives			:	not applicable			
b)	Explosives			:	not applicable			
c)	Aerosols			:	not applicable			
d)	Oxidising gas			:	not applicable			
e)	Gases under pressu	re		:	not applicable			
f)	Flammable liquids			:	not applicable			



g)	Flammable solids		not applicable
9) h)	Self-reactive substances and mixtures	:	not applicable
i)	Pyrophoric liquids	:	not applicable
., j)	Pyrophoric solids	:	not applicable
// k)	Self-heating substances and mixtures	:	not applicable
r., I)	Substances or mixtures which, in contact with	· ·	not applicable
"	water, emit flammable gases	•	not applicable
m)	Oxidising liquids		not applicable
n)	Oxidizing solids	:	not applicable
o)	Organic peroxides	:	not applicable
с, p)	Corrosive to metals		See section 7 of the safety data sheet.
р) a)	Desensitised explosives		not applicable
~			
Otl	ner 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	:	~ 3200 µS/cm
h)	Corrosiveness	:	Skin corrosion/irritation: irritant.
			Serious eye damage/irritation: Causes serious eye damage.
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!

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

No special measures are necessary.

10.3 Possibility of hazardous reactions

No special measures are necessary.

10.4 Conditions to avoid

Do not store at temperatures above: +50°C

10.5 Incompatible materials

See section 7. No additional measures necessary.



10.6 Hazardous decomposition products

SECTION 11: Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008 11.1 Test was carried out with a similar mixture. a) Acute toxicity Acute oral toxicity Preparation related information LD50 > 2000 mg/kg The acute oral toxicity is corresponding to GHS-category 5. Species Rat Method Calculation method. Information on ingredients 1,2-ETHANDIOL: LD50 (7d) 2310 mg/kg ==> Harmful if swallowed. (Source: ECHA database «Registered substances») 2-(2-BUTOXYETHOXY)ETHANOL: LD50 (14d) 5530 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: LC50 (14d) 3300 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TRIETHANOLAMMONIUM-LAURYLSULFATE: LD50 (14d) > 1650 mg/kg ==> Harmful if swallowed. (Source: ECHA database «Registered substances») COCOAMIDOPROPYL HYDROXYSULTAINE: LD50 (14d) 2950 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: LD50 (14d) > 2 000 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») Acute dermal toxicity Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: LD50 (14d) > 3500 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 2-(2-BUTOXYETHOXY)ETHANOL: LD50 (1d) 2764 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: LC50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TRIETHANOLAMMONIUM-LAURYLSULFATE: 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) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: LD50 (14d) 5 000 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 1,2-ETHANDIOL: LC50 (6h) > 2,5 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 2-(2-BUTOXYETHOXY)ETHANOL: NOEC (2h) 29 ppm ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: NOEC (4h) 651 ppm; LC50 (4h) > 3,5 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: No data available Harmful if inhaled. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) b) Skin corrosion/irritation Preparation related information Causes skin irritation. Species Calculation method. Method Information on ingredients 1,2-ETHANDIOL: non-irritant. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: non-irritant. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: Causes skin irritation. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: Causes skin irritation. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE:



non-irritant. (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: Causes skin irritation. (Source: Safety Data Sheet)

c) Serious eye damage/irritation

Preparation related information Causes serious eye damage. Species Method Calculation method. Information on ingredients 1,2-ETHANDIOL: non-irritant. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: Causes serious eye irritation. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: Causes serious eye irritation. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: Causes serious eye damage. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: Causes serious eye damage. (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: Causes serious eye damage. (Source: Safety Data Sheet)

d) Respiratory or skin sensitisation

Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: not sensitising. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: not sensitising. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: not sensitising. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: not sensitising. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: not sensitising. (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINOJPROPANOATE: not sensitising. (Source: Safety Data Sheet)

e) Germ cell mutagenicity

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



1,2-ETHANDIOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: 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) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: 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 1.2-ETHANDIOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINOJPROPANOATE: 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 1.2-ETHANDIOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE:



No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet)

h) STOT-single exposure

Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: No known symptoms to date. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: No known symptoms to date. (Source: Safety Data Sheet)

i) STOT-repeated exposure

Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: May cause damage to kidneys through prolonged or repeated exposure if swallowed. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) COCOAMIDOPROPYL HYDROXYSULTAINE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: No known symptoms to date. (Source: Safety Data Sheet)

j) Aspiration hazard

Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: No known symptoms to date. (Source: Safety Data Sheet)



	2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date.
	(Source: Safety Data Sheet)
	1-BUTOXY-2-PROPANOL:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	TRIETHANOLAMMONIUM-LAURYLSULFATE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	COCOAMIDOPROPYL HYDROXYSULTAINE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
11.2	Information on other hazards
11.2	Information on other hazards Endocrine disrupting properties
11.2	
<u>11.2</u>	Endocrine disrupting properties
11.2	Endocrine disrupting properties Preparation related information
11.2	Endocrine disrupting properties <u>Preparation related information</u> There are no data available on the mixture itself.
<u>11.2</u>	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients
<u>11.2</u>	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL:
11.2	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL:
11.2	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
<u>11.2</u>	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
<u>11.2</u>	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL:
<u>11.2</u>	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans.
<u>11.2</u>	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: 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)
<u>11.2</u>	Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: 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)

SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINOJPROPANOATE:

This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)

Other information

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

SECTION 12: Ecological information

12.1	Toxicity Acute (short-term)) fish toxicity			
	Preparation related	information			
	Effective dose	LC50	: > 10 < 100*	mg/L	
	Exposure time		: 96 h		
	Species		: Leuciscus idu	ıs (golden orfe)	
	Method		: Bridging prind	ciple "Substantially similar	r mixtures".
	Information on ingre	edients			
	1,2-ETHANDIOL:				
	LC50 (96ł	n) > 72860 mg	ı/L		
	``		se «Registered s	ubstances»)	
	2-(2-BUTOXYETH		OL:		
	LC50 (96ł	nr) 1300mg/L			



(Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: LC50 (96h) 560 mg/L (Source: ECHA database «Registered substances») TRIETHANOLAMMONIUM-LAURYLSULFATE: LC50 (96h) 5,3 mg/L (Source: ECHA database «Registered substances») COCOAMIDOPROPYL HYDROXYSULTAINE: LC50 (96h) > 1 mg/L (Source: Safety Data Sheet) SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: LC50 (96h) 4,2 mg/L (Source: ECHA database «Registered substances») Acute (short-term) toxicity to aquatic invertebrates Preparation related information Effective dose EC50 : > 10 < 100* mg/L Exposure time :48 h Species : Daphnia magna (Big water flea) Method : Bridging principle "Substantially similar mixtures". Information on ingredients 1,2-ETHANDIOL: EC50 (48h) > 13900 mg/L (Source: ECHA database «Registered substances») 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») TRIETHANOLAMMONIUM-LAURYLSULFATE: EC50 (48h) 4,2 mg/L (Source: ECHA database «Registered substances») COCOAMIDOPROPYL HYDROXYSULTAINE: EC50 (48h) 11 mg/L; NOEC (48h) 9,2 mg/L (Source: ECHA database «Registered substances») SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINOJPROPANOATE: EC50 (48h) 1,71 mg/L (Source: ECHA database «Registered substances») Acute (short-term) toxicity to algae and cyanobacteria Preparation related information Effective dose EC50 : > 10 < 100* mg/L Exposure time :72 h Species : Scenedesmus subspicatus Method : Bridging principle "Substantially similar mixtures". Information on ingredients 1.2-ETHANDIOL: EC50 (96h) > 6500 mg/L; NOEC (96h) 479 mg/L (Source: ECHA database «Registered substances») 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») TRIETHANOLAMMONIUM-LAURYLSULFATE: EC50 (72h) 11 mg/L; NOEC (72h) 3 mg/L

(Source: ECHA database «Registered substances»)

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		YL HYDROXYSULTAINE:							
		0,32 mg/L; NOEC (72h) 0,045 r							
		HA database «Registered subs							
		BOXYETHYL)(DODECYL)AMIN		DATE:					
		8,5 mg/L; NOEC (72h) 6,69 mg							
	(Source: EC	HA database «Registered subs	tances»)						
	Effects in sewage plants								
	Preparation related information								
			inal activator						
	-	Respiratory inhibition of munic	-	-					
	200* mg/L	 Concentration 	: 100%	Dilution	: > 5000*				
	20000* mg/L	Concentration	: 1%	Dilution	: > 50*				
		Bridging principle "Substantiall	y similar mix	ures".					
	Information on ingred	ients							
	1,2-ETHANDIOL:) > 1005 mm/							
		ı) > 1995 mg/L XHA database «Registered subs	tanaaa»)						
	2-(2-BUTOXYETHO)		lances»)						
	NOEC (0,5h								
	•	HA database «Registered subs	tances»)						
	1-BUTOXY-2-PROPA	•	unicco»)						
	EC50 (3h) >								
	()	HA database «Registered subs	tances»)						
	`	NIUM-LAURYLSÜLFATE:	,						
	EC50 (3h) 1	35 mg/L							
	(Source: EC	HA database «Registered subs	tances»)						
	COCOAMIDOPROP	YL HYDROXYSULTAINE:							
	No data ava								
		fety Data Sheet)							
		BOXYETHYL)(DODECYL)AMIN	OJPROPAN	DATE:					
		71 mg/L; NOEC (3h) 100 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.		s io auapieu		ge plants, will not disturb the blodegra				
	-	to foaming in sewage plants.							
	The product may load	to loaning in cowage plante.							
	Remark								
	Observe local regulati	ions concerning effluent treatme	ent.						
	Special pre-treatment								
		,							
	* The statement is de	rived from products of similar str	ructure or co	nposition.					
12.2	Persistence a	nd degradability							
	Biodegradation								
	Preparation related in								
		e (according to OECD criteria).							
	Degradation rate	: >70%*							
	Test duration	: 28 d							
	Analytical method	: BOD (% of COD).							
	Method	: Bridging principle	Substantially	similar mixtures	".				
	Туре	: Aerobic biological t	reatment						
	Information on ingred	ients							
	1,2-ETHANDIOL:								
	· · · ·) OECD 301A							
		legradable (according to OECD							
	(Source: EC	HA database «Registered subs	tances»)						

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	2-(2-BUTOXYETHOXY)ETHANOL:								
	92% (28d) OECD 301 E								
	Readily biodegradable (accord								
	(Source: ECHA database «Re 1-BUTOXY-2-PROPANOL:	gistered substances	5»)						
	90% (10d) OECD 301 E								
	90% (10d) OECD 301 E Readily biodegradable (according to OECD criteria). (Source: ECHA database «Registered substances»)								
	TRIETHANOLAMMONIUM-LAURYLSU	JLFATE:							
	92% (30d) OECD 301 D		-)						
	Readily biodegradable (accord (Source: ECHA database «Re								
	COCOAMIDOPROPYL HYDROXYSUL		,						
	71% (28d) OECD 301 D								
	Readily biodegradable (accord								
	(Source: ECHA database «Re								
	SODIUM 3-[(2-CARBOXYETHYL)(DOL	DECYL)AMINOJPRO)PANOATE:						
	98% (28d) OECD 301 E Readily biodegradable (accord	ing to OECD criteria	a)						
	(Source: ECHA database «Re								
	Chemical oyxgen demand (COD)								
	<1500000* mg *O2/L Concentra	ition : 100%	Method	DIN EN 38409-H4	1_1				
	< 1500000 mg *O2/L > Concentra		Method	DIN EN 38409-H4					
			moulou						
	Biochemical oxygen demand								
	< 600000* mg *O2/L 🕨 Concentra		Method	DIN EN 1899-1	Test duration	5 d			
	< 6000* mg *O2/L ► Concentra	ition : 1%	Method	DIN EN 1899-1	Test duration	5 d			
	BOD5/COD ratio								
	40%								
	40%								
	40% * The statement is derived from product	s of similar structure	or composition.						
10 2	* The statement is derived from product		or composition.						
12.3	* The statement is derived from product Bioaccumulative potentia		or composition.						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u>	1	e or composition.						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu	1	or composition.						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u>	1	e or composition.						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> log Kow -1,36	I ure itself.	e or composition.						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> log Kow -1,36 No indication of bioaccumulation	ure itself.							
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> log Kow -1,36 No indication of bioaccumulatio (Source: ECHA database «Re	ure itself.							
12.3	* The statement is derived from product Bioaccumulative potentia Preparation related information There are no data available on the mixtu Information on ingredients 1,2-ETHANDIOL: log Kow -1,36 No indication of bioaccumulation (Source: ECHA database «Re 2-(2-BUTOXYETHOXY)ETHANOL:	ure itself.							
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> log Kow -1,36 No indication of bioaccumulation (Source: ECHA database «Re 2-(2-BUTOXYETHOXY)ETHANOL: log Kow < 3	ure itself. on potential. gistered substances							
12.3	* The statement is derived from product Bioaccumulative potentia Preparation related information There are no data available on the mixtu Information on ingredients 1,2-ETHANDIOL: log Kow -1,36 No indication of bioaccumulation (Source: ECHA database «Re 2-(2-BUTOXYETHOXY)ETHANOL:	ure itself. on potential. gistered substances on potential.	s»)						
12.3	* The statement is derived from product Bioaccumulative potentia Preparation related information There are no data available on the mixtu Information on ingredients 1,2-ETHANDIOL: log Kow -1,36 No indication of bioaccumulatio (Source: ECHA database «Re 2-(2-BUTOXYETHOXY)ETHANOL: log Kow < 3 No indication of bioaccumulatio (Source: ECHA database «Re 1-BUTOXY-2-PROPANOL:	ure itself. on potential. gistered substances on potential.	s»)						
12.3	* The statement is derived from product Bioaccumulative potentia Preparation related information There are no data available on the mixtu Information on ingredients 1,2-ETHANDIOL: log Kow -1,36 No indication of bioaccumulation (Source: ECHA database «Ree 2-(2-BUTOXYETHOXY)ETHANOL: log Kow < 3 No indication of bioaccumulation (Source: ECHA database «Ree 1-BUTOXY-2-PROPANOL: BCF 3,16	ure itself. on potential. gistered substances on potential. gistered substances	s»)						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> log Kow -1,36 No indication of bioaccumulatio (Source: ECHA database «Re <i>2-(2-BUTOXYETHOXY)ETHANOL:</i> log Kow < 3 No indication of bioaccumulatio (Source: ECHA database «Re <i>1-BUTOXY-2-PROPANOL:</i> BCF 3,16 No indication of bioaccumulatio	ure itself. on potential. gistered substances on potential. gistered substances	;»)						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> log Kow -1,36 No indication of bioaccumulatio (Source: ECHA database «Re <i>2-(2-BUTOXYETHOXY)ETHANOL:</i> log Kow < 3 No indication of bioaccumulatio (Source: ECHA database «Re <i>1-BUTOXY-2-PROPANOL:</i> BCF 3,16 No indication of bioaccumulatio (Source: ECHA database «Re	ure itself. on potential. gistered substances on potential. gistered substances	;»)						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu <u>Information on ingredients</u> 1,2-ETHANDIOL: log Kow -1,36 No indication of bioaccumulatio (Source: ECHA database «Re 2-(2-BUTOXYETHOXY)ETHANOL: log Kow < 3 No indication of bioaccumulatio (Source: ECHA database «Re 1-BUTOXY-2-PROPANOL: BCF 3,16 No indication of bioaccumulatio (Source: ECHA database «Re TRIETHANOLAMMONIUM-LAURYLSU	ure itself. on potential. gistered substances on potential. gistered substances	;»)						
12.3	* The statement is derived from product Bioaccumulative potentia <u>Preparation related information</u> There are no data available on the mixtu <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> log Kow -1,36 No indication of bioaccumulatio (Source: ECHA database «Re <i>2-(2-BUTOXYETHOXY)ETHANOL:</i> log Kow < 3 No indication of bioaccumulatio (Source: ECHA database «Re <i>1-BUTOXY-2-PROPANOL:</i> BCF 3,16 No indication of bioaccumulatio (Source: ECHA database «Re	ure itself. on potential. gistered substances on potential. gistered substances on potential. gistered substances <i>JLFATE</i> :	;»)						
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	SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE:
	log Pow -2,12
	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.
12.5	Results of PBT and vPvB assessment
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	1,2-ETHANDIOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	2-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	1-BUTOXY-2-PROPANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	TRIETHÀNOLAMMONIUM-LAURYLSULFATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	COCOAMIDOPROPYL HYDROXYSULTAINE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)
12.6	Endocrine disrupting properties
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	1,2-ETHANDIOL:
	This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
	2-(2-BUTOXYETHOXY)ETHANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	1-BUTOXY-2-PROPANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	TRIETHANOLAMMONIUM-LAURYLSULFATE:
	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.
	SODIUM 3-[(2-CARBOXYETHYL)(DODECYL)AMINO]PROPANOATE: 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)

 $\textbf{150110}^{\star} \quad \text{packaging containing residues of or contaminated by dangerous substances}$

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.

: No

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. 15

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% application solution of STHAMEX-IAF MARINE 1% F-10 #9146:

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.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H373.8 May cause damage to kidneys through prolonged or repeated exposure if swallowed.
- H412 Harmful to aquatic life with long lasting effects.

Main Office Hamburg Liebigstr. 5 22113 Hamburg GERMANY Tel.: +49 (0)40 73 61 68-0 Fax: +49 (0)40 73 61 68-60 Sales Office Jena Carl-Pulfrich-Str. 1 07745 Jena GERMANY Tel.: +49 (0)3641 63538-57 Fax: +49 (0)3641 63538-59 Office Frankenthal Siemensstr. 4 67227 Frankenthal GERMANY Tel.: +49 (0)6233 3796-605 Fax: +49 (0)6233 3796-622

info@sthamer.com www.sthamer.com



Revision date: 07.07.2023 SD - 9146 - V04 - STHAMEX-IAF MARINE 1% F-10 #9146 - EN Version: V04

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