



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878 STHAMEX[®]-K 1% F-15 #9143



SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 **Product identifier** STHAMEX[®]-K 1% F-15 #9143 UFI: JY9T-S0GK-P00C-TRE0 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 safety 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 labor@sthamer.com E-mail (competent person) http://sthamer.com Website 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 Göttingen +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 R	egulation (EC) No 1272/2	2008 [CLP]				
	Skin Irrit. 2 H315 - Eye Irrit. 2 H319 - Aquatic Chronic 3 H412						
2.2	Label elements						
	Labelling according to Regul	ation (EC) No. 1272/2008	3 [CLP]				
	Hazard pictograms						
			\mathbf{V}				
	Signal word	WARNING					
	Hazard statements	H315	Causes skin and eye irritation.				
		H319	Causes serious eye irritation.				
		H412	Harmful to aquatic life with long lasting effects.				
	Precautionary statements	P262	Do not get in eyes, on skin, or on clothing.				
		P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/				
		P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.				
			IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with				





		P305+P351+P338	water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	Classification procedure	Bridging principle "Su	ubstantially similar mixtures".
2.3	Other hazards		
	Endocrine disrupting properties	6	
	Preparation related information		
	There are no data available on the	e mixture itself.	
	Information on ingredients		
	2-(2-BUTOXYETHOXY)ETHANC		in a new still as with as a state by use as
	1-BUTOXY-2-PROPANOL:	nave endocrine disrupti	ing properties with respect to humans.
		have endeering disrupti	ing properties with respect to humans.
	SODIUM-ALKYLETHERSULFAT		ing properties with respect to numans.
			ing properties with respect to humans.
	SODIUM-ALPHA-OLEFIN SULFO		
	This substance does not	have endocrine disrupti	ing properties with respect to humans.
	SODIUM ALKYLSULFOSUCCIN	ATE:	
	This substance does not	have endocrine disrupti	ing properties with respect to humans.
	DODECANOL:		
		have endocrine disrupti	ing properties with respect to humans.
	TETRADECANOL:		
	I his substance does not	have endocrine disrupti	ing properties with respect to humans.
	Results of PBT and vPvB asses	sment	
	Preparation related information		
	There are no data available on the	e mixture itself.	
	Information on ingredients		
	2-(2-BUTOXYETHOXY)ETHANC		
		meet the PBT/vPvB crit	teria of REACH, Annex XIII.
	1-BUTOXY-2-PROPANOL:		
			teria of REACH, Annex XIII.
	SODIUM-ALKYLETHERSULFAT		
	SODIUM-ALPHA-OLEFIN SULF		teria of REACH, Annex XIII.
			eria of REACH. Annex XIII.
	SODIUM ALKYLSULFOSUCCIN		
			eria of REACH, Annex XIII.
	DODECANOL:		
	This substance does not	meet the PBT/vPvB crit	teria of REACH, Annex XIII.
	TETRADECANOL:		
	This substance does not	meet the PBT/vPvB crit	eria of REACH, Annex XIII.
	The data refer to the product as d	alivered. The solutions fr	or use produced according to dilution recommendations are to be classified differently.
	Can harm the aquatic fauna when		
			s. It plants when entering the sewerage system.
	Breathing is not possible whilst su		
			o aquatic life because they greatly reduce the surface tension of water thus disrupting
		• • •	lants, for example, the necessary aeration of the sewage stages can be hindered by
	the strong foam formation.	5	

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures



2-(2-BUTOXYETHOXY)ETHANOL

CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44-XXXX Concentration: 10 - 15% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2; H319

1-BUTOXY-2-PROPANOL

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

SODIUM-ALKYLETHERSULFATE

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

SODIUM-ALPHA-OLEFIN SULFONATE

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

SODIUM ALKYLSULFOSUCCINATE

CAS No.: 577-11-7 EC No.: 209-406-4 REACH No.: 01-2119491296-29-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05-GHS09; Skin Irrit. 2-Eye Dam. 1; H315-H318

DODECANOL

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

TETRADECANOL

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

WATER

CAS No.: 7732-18-5 Concentration: 25 - 53,5% The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The product does not contain any relevant amounts of substances that are on the SVHC list.

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



SEC	TION 4: First aid measures
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
	methods and material	IVI CVIILAIIIIIICIIL	

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

Precautions for safe handling Avoid
Skin contact
Eye contact
Wear personal protection equipment (refer to section 8).
Measures to prevent fire
The product is not
oxidising
Combustible
Flammable
Explosive
Highly flammable
No special fire protection measures are necessary.
Environmental precautions
Shafts and sewers must be protected from entry of the product.
Advices on general occupational hygiene
When using do not eat, drink, smoke, sniff.
Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions
Do not store at temperatures above: +50°C
Do not store at temperatures above: +50°C
Do not store at temperatures above: +50°C Requirements for storage rooms and vessels
Do not store at temperatures above: +50°C Requirements for storage rooms and vessels Suitable container/equipment material Refined steel
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Do not store at temperatures above: +50°C Requirements for storage rooms and vessels Suitable container/equipment material Refined steel Polyethylene (PE) Unsuitable container/equipment material Aluminium Light metal Copper Zinc Alloy, containing copper



Hints on joint storage

Storage class

12: non-combustible liquids that cannot be assigned to any of the above storage classes

7.3 Specific end use(s)

Fire-extinguishing foams based on synthetic surfactants Do not use for cleaning purposes.

Recommendation

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Substance name: 2-(2-BUTOXYETHOXY)ETHANOL

CAS No.: 112-34-5 REACH No.: 01-2119475104-44-XXXX

United Kingdom

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EN) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EN) **European Union**

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EC) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EC) Germany

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): AGW (DE) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): Peak (DE) Ireland

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (IE) short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (IE)

8.2 Exposure controls

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Avoid contact with skin, eyes and clothes.

Remove contaminated, saturated clothing. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

Eye/face protection

Suitable eye protection Eye glasses with side protection goggles Face protection shield Recommended eye protection articles EN 166

Hand protection

Suitable gloves type Gloves with long cuffs Suitable material NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber) Breakthrough time 120 min. Thickness of the glove material



> 0.6 mm

Recommended glove articles

EN ISO 374 Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection

Body protection: not required.

Respiratory protection

Usually no personal respirative protection necessary.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

b) Colour : colourless / yellow c) Odour : Glycol, Ether, Surfactant d) Melting point/freezing point : -15°C EN 1568:2018 e) Boiling point or initial bolling point and bolling range : > 100°C DIN 51751 f) Flammability : not applicable g) Lower and upper explosion limit/flammability limit : No data available h) Flash point : No flash point up to 100 °C. i) lgnition temperature in °C : not applicable j) Decomposition temperature : No data available k) pH at °C 20 : 6,5 - 8,5 DIN 19268 l) Viscosity at °C 20 : < 30 mm ² /s DIN 51562 Newton at °C -15 : < 120 mm ² /s DIN 51562 Newton m) Solubility : not applicable p) Density and/or relative density and/or relative density and/or relative density and/or relative f) particle characteristics : not applicable f) Density and/or relative density at °C 20 : 0,990 - 1,030 g/ml DIN 12791 q) Relative vapour density : No data available f) Density and/or relative density at °C 20 : not applicable f) Density and/or relative density at °C 20 : not applicable f) particle characteristics : not applicable f) particle characteristics : not applicable g) Density and/or relative : No data available g) Density and/or relative : not applicable f) particle characteristics : not applicable g) Explosives : not applicable g) Explosives : not applicable g) Explosives : not applicable g) Explosives : not applicable g) Gases under pressure : not applicable	a)	Physical state			:	Liquid		
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d) Oxidising gas : not applicable e) Gases under pressure : not applicable	b)	Explosives			:	not applicable		
e) Gases under pressure : not applicable	C)	Aerosols			:	not applicable		
	d)	Oxidising gas			:	not applicable		
f) Flammable liquids : not applicable	e)	Gases under pressure	e		:	not applicable		
	Ð	Flammable liquids			:	not applicable		

Self-reactive substances and mixtures

g) Flammable solids

SD - 9143 - V09 - STHAMEX-K 1% F-15 #9143 - EN

Pyrophoric liquids

h)

i)

not applicable

not applicable

not applicable

not applicable

:

:

:

:



k) S	Self-heating substances and mixtures	:	not applicable
I) S	Substances or mixtures which, in contact with		
v	water, emit flammable gases	:	not applicable
m) (Oxidising liquids	:	not applicable
n) C	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
Othe	er safety characteristics		
a) M	Mechanical sensitivity	:	not applicable
b) S	Self-accelerating polymerisation temperature		
((SAPT)	:	not applicable
c) f	formation of explosible dust/air mixtures	:	not applicable
d) a	acid/alkaline reserve	:	not applicable
e) E	Evaporation rate	:	No data available
f) n	miscibility	:	Water: completely miscible
g) (Conductivity	:	~ 5700 µS/cm
h) C	Corrosiveness	:	Skin corrosion/irritation: irritant.
			Serious eye damage/irritation: irritant.
i) g	gas group	:	not applicable
j) F	Redox potential	:	not applicable
k) r	radical formation potential	:	not applicable
l) p	photocatalytic properties	:	not applicable
Add	litional hazards		
	thing is not possible whilst submerged in the foam.	Та	ke care when spraving people!

SECTION 10: Stability and reactivity

40.4	Peretivity
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



	formation on hazard classes as defined in Regulation (EC) No 1272/2008
	est was carried out with a similar mixture.
•	Acute toxicity
	cute oral toxicity
	eparation related information
	D50 > 2000 mg/kg The acute oral toxicity is corresponding to GHS-category 5.
	pecies Rat
1	ethod Bridging principle "Substantially similar mixtures".
	formation on ingredients
	(2-BUTOXYETHOXY)ETHANOL:
	LD50 (14d) 5530 mg/kg ==>
	The acute oral toxicity is corresponding to GHS-category 5.
	(Source: ECHA database «Registered substances»)
•	BUTOXY-2-PROPANOL:
	LC50 (14d) 3300 mg/kg ==>
	The acute oral toxicity is corresponding to GHS-category 5.
	(Source: ECHA database «Registered substances»)
S	DDIUM-ALKYLETHERSULFATE:
	LD50 (14d) > 2000 mg/kg ==>
	The acute oral toxicity is corresponding to GHS-category 5.
	(Source: Safety Data Sheet)
	DDIUM-ALPHA-OLEFIN SULFONATE:
	LD50 (14d) > 2300 mg/kg ==>
	The acute oral toxicity is corresponding to GHS-category 5.
	(Source: ECHA database «Registered substances»)
,	DDIUM ALKYLSULFOSUCCINATE:
	LD50 (14d) > 2100 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5.
	(Source: ECHA database «Registered substances»)
)	ODECANOL:
	LD50 (14d) > 2000 mg/kg ==>
	The acute oral toxicity is corresponding to GHS-category 5.
	(Source: ECHA database «Registered substances»)
	ETRADÈCANOL:
	LD50 (14d) > 2000 mg/kg ==>
	The acute oral toxicity is corresponding to GHS-category 5.
	(Source: ECHA database «Registered substances»)
	cute dermal toxicity
	eparation related information
	nere are no data available on the mixture itself.
	formation on ingredients
	(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»)
S	DDIUM-ALKYLETHERSULFATE:
	LD50 (14d) > 2000 mg/kg ==>
	The acute dermal toxicity is corresponding to GHS-category 5.
	(Source: Safety Data Sheet)
	DDIUM-ALPHA-OLEFIN SULFONATE:



LD50 (14d) > 2200 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: LD50 (14d) > 10000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») DODECANOL: LD50 (14d) 8000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TETRADECANOL: LD50 (14d) 8000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») Acute inhalation toxicity Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: NOEC (2h) 29 ppm ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: NOEC (4h) 651 ppm; LC50 (4h) > 3,5 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: LC50 (4h) >52 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: LC50 (96h) 20 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») DODECANOL: LC50 (1h) > 71 mg/L ==> The acute inhalation toxicity related to dust/mist is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TETRADECANOL: LC50 (1h) > 1,5 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») b) Skin corrosion/irritation Preparation related information Causes skin irritation. Species Method Bridging principle "Substantially similar mixtures". Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: non-irritant. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL:



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

(Source: Safety Data Sheet)



SODIUM-ALPHA-OLEFIN SULFONATE: not sensitising. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: not sensitising. (Source: Safety Data Sheet) DODECANOL: not sensitising. (Source: Safety Data Sheet) TETRADECANOL: not sensitising. (Source: Safety Data Sheet) e) Germ cell mutagenicity Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) DODECANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) TETRADECANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) f) Carcinogenicity Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) DODECANOL:





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

g) Reproductive toxicity

Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) DODECANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) TETRADECANOL: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) h) STOT-single exposure Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date.

(Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date.

(Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date.

(Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No known symptoms to date. (Source: Safety Data Sheet)

DODECANOL:

No known symptoms to date. (Source: Safety Data Sheet) TETRADECANOL:

> No known symptoms to date. (Source: Safety Data Sheet)

STOT-repeated exposure i)



Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No known symptoms to date. (Source: Safety Data Sheet) DODECANOL: No known symptoms to date. (Source: Safety Data Sheet) TETRADECANOL: No known symptoms to date. (Source: Safety Data Sheet) 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) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM ALKYLSULFOSUCCINATE: No known symptoms to date. (Source: Safety Data Sheet) DODECANOL: No known symptoms to date. (Source: Safety Data Sheet) TETRADECANOL: No known symptoms to date. (Source: Safety Data Sheet) 11.2 Information on other hazards Endocrine disrupting properties

Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)



1-BUTOXY-2-PROPANOL:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
SODIUM-ALKYLETHERSULFATE:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
SODIUM-ALPHA-OLEFIN SULFONATE:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
SODIUM ALKYLSULFOSUCCINATE:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
DODECANOL:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
TETRADECANOL:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
Other information

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

SECTION 12: Ecological information

12.1 Toxicity

IOXICITY				
Acute (short-term) fish	toxicity			
Preparation related infor	mation			
Effective dose	LC50	:	~ 45	mg/L
Exposure time		:	96 h	
Species		:	Leuciscus idu	us (golden orfe)
Method		:	On basis of te	est data.: OECD 203
Information on ingredien	<u>its</u>			
2-(2-BUTOXYETHOXY))ETHANC	DL:		
LC50 (96hr) 13	300mg/L			
(Source: ECHA	A databas	se («Registered s	ubstances»)
1-BUTOXY-2-PROPAN	OL:			
LC50 (96h) 56	•			
(Source: ECHA			-	ubstances»)
SODIUM-ALKYLETHEF		TE:		
LC50 (96h) 1 -	•			
(Source: Safety	•		,	
SODIUM-ALPHA-OLEF		ON	VATE:	
LC50 (96h) 4,2				
(Source: ECHA				ubstances»)
SODIUM ALKYLSULFO		IAI	1E:	
LC50 (96h) 49				
(Source: ECHA	A databas	se («Registered s	ubstances»)
DODECANOL:	1			
LC50 (96h) 1,0	•			(hotoroo)
(Source: ECHA	A Galabas	e («Registered s	ubstances»)
LC50 (96h) > 1	0 mg/l			
(Source: ECHA	•	<u>م</u>	"Registered s	ubstances»)
	1 0010003		«Itegistered s	ubstances»)
Acute (short-term) tox	icity to a	an	atic invertebr	rates
Preparation related infor	•	44		
Effective dose	EC50		~ 45	mg/L
Exposure time	2000	-	48 h	iiig/⊏
		•		



Species : Daphnia magna (Big water flea) : On basis of test data.: OECD 202 Method Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: EC50 (48hr) > 1101 ma/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (48h) > 1000 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: EC50 (48h) 10 - 100 mg/L (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: LC50 (48h) 4,53 mg/L (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: EC50 (48h) 15,2 mg/L (Source: ECHA database «Registered substances») DODECANOL: NOEC (48h) 0,316 mg/L; EC50 (48h) 0,765 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: EC50 (48h) 3,2 mg/L (Source: ECHA database «Registered substances») Acute (short-term) toxicity to algae and cyanobacteria Preparation related information Effective dose EC50 :~50 mg/L Exposure time :72 h Species : Scenedesmus subspicatus Method : On basis of test data .: OECD 201 Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: EC50 (72h) 1 101 mg/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (96h) > 1000 mg/L; NOEC (96h) 569 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: EC50 (72h) > 100 mg/L (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: EC50 (48h) 45 mg/L (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: EC50 (72h) 82,5 mg/L; NOEC (72h) 22 mg/L (Source: ECHA database «Registered substances») DODECANOL: EC50 (72h) 0,66 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: EL50 (96h) > 10 mg/L (Source: ECHA database «Registered substances») Effects in sewage plants Preparation related information Analytical method : Respiratory inhibition of municipal activated sludge. 250 mg/L Dilution

 Concentration :100% : > 4000



25000 mg/L Concentration :1% Dilution : > 40 : On basis of test data.: DIN 38412/part 3 (TTC) Method Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: NOEC (0.5h) 1995 ma/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (3h) > 1000 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: NOEC (16h) > 10000 mg/L (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: EC50 (3h) 230 mg/L; NOEC (3h) 40 mg/L (Source: ECHA database «Registered substances») SODIUM ALKYLSULFOSUCCINATE: EC50 (16h) 164 mg/L; NOEC (16h) 122 mg/L (Source: ECHA database «Registered substances») DODECANOL: NOEC (0,5h) > 10000 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: NOEC (14d) 10000 mg/L (Source: ECHA database «Registered substances») Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. The product may lead to foaming in sewage plants. Remark Observe local regulations concerning effluent treatment. Special pre-treatments are necessary. 12.2 Persistence and degradability Biodegradation Preparation related information Readily biodegradable (according to OECD criteria). :~93,5% Degradation rate Test duration : 28 d Analytical method : BOD (% of COD). Method : On basis of test data .: OECD 301F : Aerobic biological treatment Type Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: 92% (28d) OECD 301 E Readily biodegradable (according to OECD criteria). (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: 90% (10d) OECD 301 E Readily biodegradable (according to OECD criteria). (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: >70% (28d) OECD 301 C Readily biodegradable (according to OECD criteria). (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: 80% (28d) OECD 301 B Readily biodegradable (according to OECD criteria).



	(Source: ECHA database «Registered s	substances	s»)			1		
	SODIUM ALKYLSULFOSUCCINATE:		,					
	91% (28d) OECD 310							
	Readily biodegradable (according to OECD criteria).							
	(Source: ECHA database «Registered substances»)							
	79% (28d) OECD 301 D Readily biodegradable (according to OECD criteria).							
	(Source: ECHA database «Registered s		,					
	TETRADECANOL:		,					
	82,2% (28d) OECD 301 B							
	Readily biodegradable (according to OE		,					
	(Source: ECHA database «Registered s	substances	S»)					
	Chemical oyxgen demand (COD)							
	~ 1299000 mg *O2/L ► Concentration	: 100%	Method	DIN EN 38409-H4	1_1			
	~ 12990 mg *O2/L ► Concentration	: 1%	Method	DIN EN 38409-H4				
		. 170	Moulou	Dirt Ert oo loo ini				
	Biochemical oxygen demand							
	~405000 mg *O2/L ► Concentration	: 100%	Method	DIN EN 1899-1	Test duration	5 d		
	~4050 mg *O2/L ► Concentration	:1%	Method	DIN EN 1899-1	Test duration	5 d		
	BOD5/COD ratio							
	31%							
12.3	Bioaccumulative potential 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 potent	ial.						
	(Source: ECHA database «Registered s	substances	s»)					
	1-BUTOXY-2-PROPANOL:							
	BCF 3,16	iol						
	No indication of bioaccumulation potent (Source: ECHA database «Registered s		s»)					
	SODIUM-ALKYLETHERSULFATE:		<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	log Kow < 3							
	No indication of bioaccumulation potent	ial.						
	(Source: Safety Data Sheet)							
	SODIUM-ALPHA-OLEFIN SULFONATE:							
	BCF 70,8 No indication of bioaccumulation potent	ial						
	(Source: ECHA database «Registered s		s»)					
	SODIUM ALKYLSULFOSUCCINATE:							
	log Kow < 3							
	No indication of bioaccumulation potent							
	(Source: ECHA database «Registered s	substances	s»)					
	DODECANOL: BCF 750							
	No indication of bioaccumulation potent	ial						
	(Source: ECHA database «Registered s		s»)					
	TETRADECANOL:		,					
	BCF 1000							
	No indication of bioaccumulation potent							
	(Source: ECHA database «Registered s	substances	S»)					
						I		



	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
	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)
	SODIUM-ALKYLETHERSULFATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. (Source: Safety Data Sheet)
	SODIUM-ALPHA-OLEFIN SULFONATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	SODIUM ALKYLSULFOSUCCINATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	DODECANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	TETRADECANOL:
	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
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL:
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans.
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL:
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans.
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 50DIUM-ALKYLETHERSULFATE:
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans.
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE:
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: This substance does not have endocrine disrupting properties with respect to humans.
	Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
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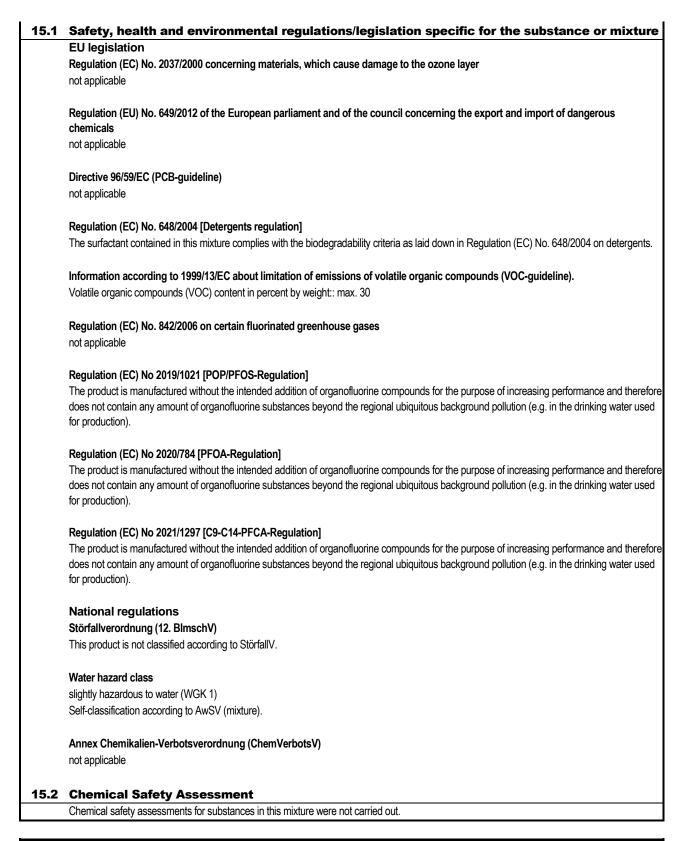
13.1	Waste treatment methods
	Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
	Dispose of waste according to applicable legislation.
	Waste codes/waste designations according to EWC/AVV
	Waste code product
	16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
	1603 off-specification 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.
<u>14.1</u> 14.2	UN number or ID number none
14.1	UN number or ID number none
4.1	UN number or ID number none UN proper shipping name not applicable
4.1 4.2	UN number or ID number none UN proper shipping name not applicable
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14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information





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-K 1% F-15 #9143:

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

Full text of Hazard- and EU Hazard-statements

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

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