



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

MOUSSOL[®]-FF 3/6 F-5 #7942



.1	Product identifier	
	MOUSSOL [®] -FF 3/6 F-	5 #7942
	UFI: 1VYP-W0HT-U000-CRJH	
.2	Relevant identified uses of the s	substance or mixture and uses advised against
	Use of the substance/mixture	
	Fire-extinguishing foam	
.3	Details of the supplier of the sat	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
.4	Emergency telephone number	
	GIZ-Nord Poisons Centre of the University of Gö	ttingen +49 (0)551/19240

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] Eye Irrit. 2 H319 - STOT RE 2 H373 2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms WARNING Signal word Hazard statements H319 Causes serious eye irritation. May cause damage to kidneys through prolonged or repeated exposure if swallowed. H373.8 Precautionary statements P262 Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection/hearing P280 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 Dther hazards Endocrine disrupting propertie Preparation related information There are no data available on th	On basis of test data	/Experimental data					
Endocrine disrupting propertie Preparation related information	95						
Preparation related information	es						
There are no data available on th							
	ne mixture itself.						
Information on ingredients							
,2-ETHANDIOL:							
This substance does no	ot have endocrine disrupt	ing properties with respect to humans.					
2-(2-BUTOXYETHOXY)ETHAN	OL:						
This substance does no	ot have endocrine disrupt	ing properties with respect to humans.					
RIETHANOLAMMONIUM-LAU	RYLSULFATE:						
This substance does no	ot have endocrine disrupt	ing properties with respect to humans.					
ALKYLAMIDOBETAINE:							
This substance does no	ot have endocrine disrupt	ing properties with respect to humans.					
Results of PBT and vPvB assessment							
Preparation related information							
There are no data available on the mixture itself.							
nformation on ingredients							
,2-ETHANDIOL:							
This substance does no	ot meet the PBT/vPvB cri	teria of REACH, Annex XIII.					
2-(2-BUTOXYETHOXY)ETHAN	OL:						
This substance does no	ot meet the PBT/vPvB crit	teria of REACH, Annex XIII.					
TRIETHANOLAMMONIUM-LAURYLSULFATE:							
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.							
	ot meet the PBT/vPvB cri	teria of REACH, Annex XIII.					
The data refer to the product as delivered. The solutions for use produced according to dilution recommendations are to be classified differently							
Can harm the bacteria population in waste water treatment plants when entering the sewerage system.							
Breathing is not possible whilst submerged in the foam. Take care when spraying people!							
Concentrated surfactant solutions always pose a danger to aquatic life because they greatly reduce the surface tension of water thus disrupting							
		plants, for example, the necessary aeration of the sewage stages can be hindered by					
•	0 1						
	This substance does no ALKYLAMIDOBETAINE: This substance does no Preparation related information There are no data available on the <u>nformation on ingredients</u> ,2-ETHANDIOL: This substance does no Preparation related information This substance does no C-(2-BUTOXYETHOXY)ETHANG This substance does no RIETHANOLAMMONIUM-LAU This substance does no ALKYLAMIDOBETAINE: This substance does no Can harm the aquatic fauna whe Can harm the bacteria population Breathing is not possible whilst s Concentrated surfactant solution	This substance does not have endocrine disrupt Results of PBT and vPvB assessment Preparation related information There are no data available on the mixture itself. Information on ingredients ,2-ETHANDIOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB cri C-(2-BUTOXYETHOXY)ETHANOL: C-(2-BUTOXYETHOXY)ETHANOL: C-(2-BUTOXYETHOXY)ETHANOL: C-(2-BUTOXYETHOXY)ETHANOL: C-(2-BUTOXYETHOXY)ETHANOL: C-(2-BUTOXYETHOXY					

I 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: 10 - 15%

 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



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

ALKYLAMIDOBETAINE

CAS No.: 147170-44-3 EC No.: 263-058-8 REACH No.: 01-2119552480-44-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1-Aquatic Chronic 3; H318-H412

WATER

CAS No.: 7732-18-5 Concentration: 60 - 79% 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/....



SEC	TION 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.
SEC	TION 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.
	Do not allow to enter into sufface water of drains.
6.3	Methods and material for containment and cleaning up
0.0	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
SEC	TION 7: Handling and storage
7.1	Precautions for safe handling
	Avoid
	Skin contact
	Eye contact
	Wear personal protection equipment (refer to section 8).
	Measures to prevent fire
	The product is not
	oxidising
	Combustible
	Flammable
	Explosive

Highly flammable

No special fire protection measures are necessary.



	Environmental precautions
	Shafts and sewers must be protected from entry of the product.
	Advices on general occupational hygiene
	When using do not eat, drink, smoke, sniff.
7.2	Conditions for safe storage, including any incompatibilities
	Technical measures and storage conditions
	Do not store at temperatures above: +50°C
	Requirements for storage rooms and vessels
	Suitable container/equipment material
	Refined steel
	Polyethylene (PE)
	Unsuitable container/equipment material
	Aluminium
	Light metal
	Copper
	Zinc
	Alloy, containing copper
	Alloy, contains light metal
	Iron.
	Steel
	Hints on joint storage
	Storage class
	12: non-combustible liquids that cannot be assigned to any of the above storage classes
7.3	Specific end use(s)
	Fire-extinguishing foams based on synthetic surfactants
	Do not use for cleaning purposes.
	Recommendation
	Observe technical data sheet.
SEC	TION 8: Exposure controls/personal protection
8.1	Control parameters
	Substance name: 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): YWY (IE)
	······································
	Substance name: 2-(2-BUTOXYETHOXY)ETHANOL
	CAS No. 142 24 5

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.



	nformation on ba	sic physica	al and c	;he	emical properties		
a)				:	Liquid		
b)) Colour			:	colourless / yellow		
C)	Odour			:	Glycol, Ether, Surfactant		
d)) Melting point/freezin	g point		:	-5°C	EN 1568:2018	1
e)	Boiling point or initia	al boiling point a	nd boiling	3			
	range			:	> 100°C	DIN 51751	
f)	Flammability			:	not applicable		
g)		plosion limit/flar	nmability				
b)	limit			:	No data available		
h)		in 90		÷	No flash point up to 100 °C.		
i) i)	Ignition temperature			:	not applicable		
j) L)	Decomposition temp	erature at °C	20	;	No data available		
k) I)) pH Viscosity	at °C at °C	20 20	÷	6,5 - 8,5 < 800/400) mPa*e @ 75/375) 1/e	DIN 19268 DIN 53019	structure viscous
ŋ	viscosity	at °C	20 -5	÷	< 800(400) mPa*s @ 75(375) 1/s	DIN 53019 DIN 53019	
m) Solubility	αιυ	-3	:	< 1500(750) mPa*s @ 75(375) 1/s Water: completely miscible	OECD 105	structure viscous
n)		n-octanol/water	(log	•			
,	value)		(·•9	:	not applicable		
o)	· · · · ·			:	No data available		
p)		ve					
• •	density	at °C	20	:	1,020 - 1,060 g/ml	DIN 12791	
q)	_	sity		:	No data available		
r)	particle characteristi	cs		:	not applicable		
a)	•			:	not applicable		
b)) Explosives			:	not applicable		
c)				:	not applicable		
d)				:	not applicable		
e)		re		:	not applicable		
f)	•			:	not applicable		
g)				:	not applicable		
		nces and mixtur	es	:	not applicable		
h) "	Pyrophoric liquids			:	not applicable		
i)	Dumant 1 H						
i) j)	Pyrophoric solids			•	not applicable		
i) j) k)	Self-heating substar			:	not applicable not applicable		
i) j)	Self-heating substar Substances or mixtu	ires which, in co		: : 1	not applicable		
) j) k) I)	Self-heating substar Substances or mixtu water, emit flammab	ires which, in co		: : 1 :	not applicable		
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i) j) k) l) m	 Self-heating substar Substances or mixtu water, emit flammab Oxidising liquids Oxidizing solids Organic peroxides Corrosive to metals 	ıres which, in co le gases			not applicable not applicable not applicable not applicable		
) j) k) l) m n) o) p) q)	 Self-heating substar Substances or mixtu water, emit flammab Oxidising liquids Oxidizing solids Organic peroxides Corrosive to metals Desensitised explos 	ıres which, in co le gases ives		: : : : : :	not applicable not applicable not applicable not applicable not applicable See section 7 of the safety data sheet.		
) j) k) l) m n) o) p) q) q)	 Self-heating substar Substances or mixtu water, emit flammab Oxidising liquids Oxidizing solids Organic peroxides Corrosive to metals Desensitised explos 	ires which, in co le gases ives iveristics			not applicable not applicable not applicable not applicable see section 7 of the safety data sheet. not applicable		
) j) j) k) l) l) n) p) p) p) q) q) a)	 Self-heating substar Substances or mixtu water, emit flammab Oxidising liquids Oxidizing solids Organic peroxides Corrosive to metals Desensitised explos Other safety charact Mechanical sensitivi 	ires which, in co le gases ives teristics ty	ontact with		not applicable not applicable not applicable not applicable not applicable See section 7 of the safety data sheet.		
) j) k) l) m n) o) p) q) q)	 Self-heating substar Substances or mixtu water, emit flammab Oxidising liquids Oxidizing solids Organic peroxides Corrosive to metals Desensitised explos Other safety charact Mechanical sensitivi Self-accelerating pol 	ires which, in co le gases ives teristics ty	ontact with		not applicable not applicable not applicable not applicable see section 7 of the safety data sheet. not applicable not applicable		
) j) j) k) l) n) o) p) q) q) d) b)	 Self-heating substar Substances or mixtu water, emit flammab Oxidising liquids Oxidizing solids Organic peroxides Corrosive to metals Desensitised explos Other safety charact Mechanical sensitivi Self-accelerating pol (SAPT) 	rres which, in co le gases ives teristics ty ymerisation ten	ontact with		not applicable not applicable not applicable not applicable see section 7 of the safety data sheet. not applicable not applicable not applicable		
) j) j) k) l) n) o) p) q) q) a) b) b)	 Self-heating substar Substances or mixtu water, emit flammab Oxidising liquids Oxidizing solids Organic peroxides Corrosive to metals Desensitised explos Other safety charact Mechanical sensitivi Self-accelerating pol (SAPT) formation of explosi 	ires which, in co le gases ives ty ymerisation ten ble dust/air mixt	ontact with		not applicable not applicable not applicable not applicable see section 7 of the safety data sheet. not applicable not applicable not applicable not applicable		
) j) j) k) l) l) m n) o) p) q) q) d) b)	 Self-heating substar Substances or mixtu water, emit flammab Oxidising liquids Oxidizing solids Organic peroxides Corrosive to metals Desensitised explose Dether safety charact Mechanical sensitiviti Self-accelerating pol (SAPT) formation of explosi 	ires which, in co le gases ives ty ymerisation ten ble dust/air mixt	ontact with		not applicable not applicable not applicable not applicable see section 7 of the safety data sheet. not applicable not applicable not applicable		

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- g) Conductivity
- h) Corrosiveness
- i) gas group
- j) Redox potential
- k) radical formation potential
- I) photocatalytic properties

Additional hazards

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

: ~ 6100 µS/cm

: not applicable

: not applicable

: not applicable

:

not applicable

: Skin corrosion/irritation: none

Serious eye damage/irritation: irritant.

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

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

a) Acute toxicity Acute oral toxicity Preparation related information The acute oral toxicity is corresponding to GHS-category 5. LD50 > 2000 mg/kg Species Rat On basis of test data.: OECD 420 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») TRIETHANOLAMMONIUM-LAURYLSULFATE: LD50 (14d) > 1650 mg/kg ==> Harmful if swallowed. (Source: ECHA database «Registered substances») ALKYLAMIDOBETAINE: LD50 (14d) 2235 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») TRIETHANOLAMMONIUM-LAURYLSULFATE: LD50 (14d) > 2000 ma/ka ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») ALKYLAMIDOBETAINE: LD50 (14d) > 2000 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») TRIETHANOLAMMONIUM-LAURYLSULFATE: No data available Harmful if inhaled. (Source: Safety Data Sheet) ALKYLAMIDOBETAINE: 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 non-irritant.

 non-irritant.

 Species
 Albino rabbit

 Method
 On basis of test data.: OECD 404

 Information on ingredients



1,2-ETHANDIOL: non-irritant. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: non-irritant. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: Causes skin irritation. (Source: Safety Data Sheet) ALKYLAMIDOBETAINE: non-irritant. (Source: Safety Data Sheet) c) Serious eye damage/irritation Preparation related information Causes eye irritation. Species Albino rabbit

Species Albino rabbit Method On basis of test data .: OECD 404 Information on ingredients 1,2-ETHANDIOL: non-irritant. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: Causes serious eye irritation. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: Causes serious eye damage. (Source: Safety Data Sheet) ALKYLAMIDOBETAINE: 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) TRIETHANOLAMMONIUM-LAURYLSULFATE: not sensitising. (Source: Safety Data Sheet) ALKYLAMIDOBETAINE: not sensitising. (Source: Safety Data Sheet)

e) Germ cell mutagenicity

Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-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) TRIETHANOLAMMONIUM-LAURYLSULFATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) ALKYLAMIDOBETAINE: 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) TRIETHANOLAMMONIUM-LAURYLSULFATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) ALKYLAMIDOBETAINE: 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) TRIETHANOLAMMONIUM-LAURYLSULFATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) ALKYLAMIDOBETAINE: 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) TRIETHANOLAMMONIUM-LAURYLSULFATE: No known symptoms to date. (Source: Safety Data Sheet) ALKYLAMIDOBETAINE: 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)
	TRIETHANOLAMMONIUM-LAURYLSULFATE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	ALKYLAMIDOBETAINE:
	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)
	TRIETHANOLAMMONIUM-LAURYLSULFATE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	ALKYLAMIDOBETAINE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
11.2	Information on other hazards
	Endocrine disrupting properties
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	1,2-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)
	TRIETHANOLAMMONIUM-LAURYLSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	ALKYLAMIDOBETAINE:
	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

Acute (short-term) fish toxicity	
Preparation related information	0.40
Effective dose LC50	0
Exposure time	: 96 h
Species	: Leuciscus idus (golden orfe)
Method	: On basis of test data.: OECD 203
Information on ingredients	
1,2-ETHANDIOL:	
LC50 (96h) > 72860 mg	
	e «Registered substances»)
2-(2-BUTOXYETHOXY)ETHANC	DL:
LC50 (96hr) 1300mg/L	
	e «Registered substances»)
TRIETHANOLAMMONIUM-LAU	RYLSULFATE:
LC50 (96h) 5,3 mg/L	
	e «Registered substances»)
ALKYLAMIDOBETAINE:	
LC50 (96h) 1,11 mg/L	
(Source: ECHA databas	e «Registered substances»)
Acute (short-term) toxicity to a	quatic invertebrates
Preparation related information	•
Effective dose EC50	:~210 mg/L
Exposure time	: 48 h
Species	: Daphnia magna (Big water flea)
Method	: On basis of test data.: OECD 202
Information on ingredients	
1,2-ETHANDIOL:	
EC50 (48h) > 13900 mg	a/l
. ,	e «Registered substances»)
2-(2-BUTOXYETHOXY)ETHANC	- ,
EC50 (48hr) > 1101 mg/	
(Source: ECHA databas	e «Registered substances»)
TRIETHANOLAMMONIUM-LAUI	RYLSULFATE:
EC50 (48h) 4,2 mg/L	
(Source: ECHA databas	e «Registered substances»)
ALKYLAMIDOBETAINE:	
EC50 (48h) 1,9 mg/L	
(Source: ECHA databas	e «Registered substances»)
A auto (ale aut to um) to viaitu to al	was and supportants
Acute (short-term) toxicity to al Preparation related information	yae anu cyanobactena
Effective dose EC50	:~210 mg/L
Exposure time	: 72 h
	: Scenedesmus subspicatus
Species Mothed	•
Method	: On basis of test data.: OECD 201
Information on ingredients	
1,2-ETHANDIOL:	NOTC (06h) 470
	L; NOEC (96h) 479 mg/L
	e «Registered substances»)
2-(2-BUTOXYETHOXY)ETHANC EC50 (72h) 1 101 mg/L	JL.
	a "Pagistarad substances")
(Source: ECHA databas	e «Registered substances»)
EC50 (72h) 11 mg/L; NO	
	e «Registered substances»)
ALKYLAMIDOBETAINE:	ง «กังชาวเอาอน จนม่อเล่าเปอง»)
EC50 (72h) 1,5 mg/L; N	OEC (72h) 0.3 mg/l
ECOU (7211) 1,5 Mg/L; N	0L0 (7211) 0,3 1119/L





(Source: ECHA database «Registered substances») Effects in sewage plants Preparation related information Analytical method : Respiratory inhibition of municipal activated sludge. Concentration : 100% Dilution : > 2000 500 mg/L 16600 mg/L Concentration : 3% Dilution : > 60 Method : On basis of test data .: DIN 38412/part 3 (TTC) Information on ingredients 1,2-ETHANDIOL: NOEC (0,5h) > 1995 mg/L (Source: ECHA database «Registered substances») 2-(2-BUTOXYETHOXY)ETHANOL: NOEC (0,5h) 1995 mg/L (Source: ECHA database «Registered substances») TRIETHANOLAMMONIUM-LAURYLSULFATE: EC50 (3h) 135 mg/L (Source: ECHA database «Registered substances») ALKYLAMIDOBETAINE: NOEC (16h) 3000 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). Degradation rate :~99% Test duration : 28 d Analytical method : BOD (% of COD). Method : On basis of test data .: OECD 301F Type : Aerobic biological treatment Information on ingredients 1,2-ETHANDIOL: > 90% (10d) OECD 301A Readily biodegradable (according to OECD criteria). (Source: ECHA database «Registered substances») 2-(2-BUTOXYETHOXY)ETHANOL: 92% (28d) OECD 301 E Readily biodegradable (according to OECD criteria). (Source: ECHA database «Registered substances») TRIETHANOLAMMONIUM-LAURYLSULFATE: 92% (30d) OECD 301 D Readily biodegradable (according to OECD criteria). (Source: ECHA database «Registered substances») ALKYLAMIDOBETAINE: 95% (28d) OECD 201 C Readily biodegradable (according to OECD criteria). (Source: ECHA database «Registered substances»)

Chemical oyxgen demand (COD)



	~488000 mg *O2/L 🕨	Concentration	: 100%	Method	DIN EN 38409-H4	1_1	I					
	~ 14640 mg *O2/L		: 3%	Method	DIN EN 38409-H4							
	Biochemical oxygen dema	and										
	~ 170000 mg *O2/L 🕨	Concentration	: 100%	Method	DIN EN 1899-1	Test duration	5 d					
	~5100 mg *O2/L ►	Concentration	: 3%	Method	DIN EN 1899-1	Test duration	5 d					
	BOD5/COD ratio											
	35%											
12.3	Bioaccumulative p	otential										
12.5	Preparation related informat											
	There are no data available											
	Information on ingredients											
	1,2-ETHANDIOL:											
	log Kow -1,36											
		paccumulation potent										
		tabase «Registered s	substances	»)								
	2-(2-BUTOXYETHOXY)ETH log Kow < 3	HANUL.										
		paccumulation potent	ial.									
		tabase «Registered s		»)								
	TRIETHANOLAMMONIUM	-LAURYLSULFATE:										
	log Pow < -0,76											
		paccumulation potent										
	(Source: ECHA da ALKYLAMIDOBETAINE:	tabase «Registered s	substances	»)								
	BCF < 71											
		paccumulation potent	ial.									
	(Source: ECHA da	tabase «Registered s	substances	»)								
					Mobility in soil							
12.4	-											
12.4	Mobility in soil If product enters soil, it will b	e mobile and may co	ontaminate	groundwater.								
	If product enters soil, it will b			groundwater.								
12.4 12.5	If product enters soil, it will b Results of PBT and	d vPvB assess		groundwater.								
	If product enters soil, it will b Results of PBT and Preparation related informat	d vPvB assess		groundwater.								
	If product enters soil, it will b Results of PBT and	d vPvB assess		groundwater.								
	If product enters soil, it will be Results of PBT and <u>Preparation related informat</u> There are no data available	d vPvB assess		groundwater.								
	If product enters soil, it will be Results of PBT and <u>Preparation related information</u> There are no data available <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> This substance do	d vPvB assess tion on the mixture itself. es not meet the PBT/	sment	-	< XIII.							
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	If product enters soil, it will b Results of PBT and <u>Preparation related information on ingredients</u> <i>1,2-ETHANDIOL:</i> This substance do (Source: Safety Da <i>2-(2-BUTOXYETHOXY)ETH</i> This substance do	d vPvB assess tion on the mixture itself. es not meet the PBT/ ata Sheet) HANOL: es not meet the PBT/	s ment /vPvB criter	ia of REACH, Anne								
	If product enters soil, it will b Results of PBT and <u>Preparation related informat</u> There are no data available <u>Information on ingredients</u> <i>1,2-ETHANDIOL:</i> This substance do (Source: Safety Data) <i>2-(2-BUTOXYETHOXY)ETH</i>	d vPvB assess tion on the mixture itself. es not meet the PBT/ ata Sheet) HANOL: es not meet the PBT/ ata Sheet)	s ment /vPvB criter	ia of REACH, Anne								
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	If product enters soil, it will be Results of PBT and Preparation related information Information on ingredients 1,2-ETHANDIOL: This substance do (Source: Safety Da 2-(2-BUTOXYETHOXY)ETH This substance do (Source: Safety Da TRIETHANOLAMMONIUM This substance do (Source: Safety Da	d vPvB assess tion on the mixture itself. es not meet the PBT/ ata Sheet) HANOL: es not meet the PBT/ ata Sheet) -LAURYLSULFATE: es not meet the PBT/	/vPvB criter	ia of REACH, Annevia of REACH, Annev	x XIII.							
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12.5	If product enters soil, it will be Results of PBT and <u>Preparation related information on ingredients</u> <i>1,2-ETHANDIOL:</i> This substance do (Source: Safety Da <i>2-(2-BUTOXYETHOXY)ETHOXY)ETHOXYETHOXYETHOXYETHOXYETHOXYETHOXYETHOXYDETHOXYDETA</i> This substance do (Source: Safety Da <i>TRIETHANOLAMMONIUM</i> This substance do (Source: Safety Da <i>ALKYLAMIDOBETAINE:</i> This substance do (Source: Safety Da <i>ALKYLAMIDOBETAINE:</i> This substance do (Source: Safety Da Endocrine disrupti Preparation related information There are no data available	d vPvB assess tion on the mixture itself. es not meet the PBT/ ata Sheet) HANOL: es not meet the PBT/ ata Sheet) -LAURYLSULFATE: es not meet the PBT/ ata Sheet) es not meet the PBT/ ata Sheet) ing properties	/vPvB criter /vPvB criter /vPvB criter /vPvB criter	ia of REACH, Annev ia of REACH, Annev ia of REACH, Annev	x XIII. x XIII.							
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(Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: 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) ALKYLAMIDOBETAINE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)

12.7 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Waste codes/waste designations according to EWC/AVV

Waste code product

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

Waste code packaging

 15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
 1501 packaging (including separately collected municipal packaging waste)
 150110* packaging containing residues of or contaminated by dangerous substances

Remark

Delivery to an approved waste disposal company.

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

SECTION 14: Transport information

14.1 UN number or ID number

none

14.2 UN proper shipping name

not applicable

14.3 Transport hazard class(es)

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

Inland waterway craft (ADN)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

14.4 Packing group

not applicable



14.5 Environmental hazards

none

Marine pollutant

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

: No

not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer not applicable

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

not applicable

Directive 96/59/EC (PCB-guideline) not applicable

Regulation (EC) No. 648/2004 [Detergents regulation]

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline). Volatile organic compounds (VOC) content in percent by weight:: max. 10

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases not applicable

Regulation (EC) No 2019/1021 [POP/PFOS-Regulation]

The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).

Regulation (EC) No 2020/784 [PFOA-Regulation]

The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).

Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation]

The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).

National regulations

Störfallverordnung (12. BlmschV) This product is not classified according to StörfallV.

Water hazard class slightly hazardous to water (WGK 1)





Self-classification according to AwSV (mixture).

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV) not applicable

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

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

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

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

Classification for the 3%/6% application solution of MOUSSOL-FF 3/6 F-5 #7942:

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	Sales Office Hannover	Sales Office Jena	Office Frankenthal		
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22113 Hamburg	30659 Hannover	07745 Jena	67227 Frankenthal	info@sthamer.com	SO 9001
GERMANY	GERMANY	GERMANY	GERMANY	www.sthamer.com	zertifiziert
Tel.: +49 (0)40 73 61 68-0	Tel.: +49 (0)511 768 358-45	Tel.: +49 (0)3641 63538-57	Tel.: +49 (0)6233 3796-605		SEE
Fax: +49 (0)40 73 61 68-60	Fax: +49 (0)511 768 358-46	Fax: +49 (0)3641 63538-59	Fax: +49 (0)6233 3796-622		
Revision date: 06.07.2	023	Versio	on: V21	Repl	aces: 25.05.2023 (V20)

Replaces: 25.05.2023 (V20) Page 18 of 18