



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

## FOAMOUSSE<sup>®</sup>-FFFP 3% F-15 #5331



#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 **Product identifier** FOAMOUSSE<sup>®</sup>-FFFP 3% F-15 #5331 **UFI: EQRF-D0CA-300V-7E22** 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Fire-extinguishing foam based on protein hydrolysate and fluorinated surfactants 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 E-mail (competent person) labor@sthamer.com Website http://sthamer.com Department responsible for information Dr. Prall, +49 (0)40/736168-31 Emergency telephone number +49 (0)40/736168-0 1.4 **Emergency telephone number** GIZ-Nord Poisons Centre of the University of 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	<b>Classification of the s</b>	ubstance or mix	kture
	Classification according to Reg	ulation (EC) No 1272/2	2008 [CLP]
	The mixture is classified as not ha	azardous according to re	gulation (EC) No 1272/2008 [CLP].
2.2	Label elements		
	Labelling according to Regulat	ion (EC) No. 1272/2008	[CLP]
	Hazard pictograms		$\diamond$
	Signal word	The mixture is o 1272/2008 [CLP	classified as not hazardous according to regulation (EC) No ].
	Hazard statements		
	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	F SWALLOWED: rinse mouth. Do NOT induce vomiting.
		P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].



		P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
			if present and easy to do. Continue rinsing.
	Classification procedure	Calculation method.	
2.3	Other hazards		
	Endocrine disrupting properties	5	
	Preparation related information		
	There are no data available on the	e mixture itself.	
	Information on ingredients		
	FLUOROSURFACTANT:		
	IRON-(II)-SULFATE-7-HYDRATE	•	ng properties with respect to humans.
			ng properties with respect to humans.
	(2-METHOXYMETHYLOXY)PRO	•	ng properties with respect to humans.
			ng properties with respect to humans.
	INGREDIENTS NOT CLASSIFIEI		
	This substance does not	have endocrine disrupti	ng 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		
	FLUOROSURFACTANT:		
	I his substance does not IRON-(II)-SULFATE-7-HYDRATE		eria of REACH, Annex XIII.
			eria of REACH, Annex XIII.
	(2-METHOXYMETHYLOXY)PRO	PANOL:	
			eria of REACH, Annex XIII.
	INGREDIENTS NOT CLASSIFIEI		
	The substances in the m	ixture do not meet the P	BT/vPvB criteria according to REACH, annex XIII.
			or use produced according to dilution recommendations are to be classified differently.
	Can harm the aquatic fauna when	•	
			t plants when entering the sewerage system.
	Breathing is not possible whilst su		
	The product contains fluorecurfact	ante that are not comply	stoly biodogradable

The product contains fluorosurfactants that are not completely biodegradable.

### **SECTION 3: Composition/information on ingredients**

3.1 Substances

not applicable

#### 3.2 Mixtures

 FLUOROSURFACTANT

 CAS No.: 34455-29-3

 EC No.: 252-046-8

 REACH No.: 01-2120119140-76-XXXX

 Concentration: 0,25 - 2,5%

 Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS09; Eye Irrit. 2-Aquatic Chronic 2; H319-H411

#### IRON-(II)-SULFATE-7-HYDRATE

CAS No.: 7782-63-0 EC No.: 231-753-5 REACH No.: 01-2119513203-57-XXXX Concentration: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2; H302-H315-H319

#### (2-METHOXYMETHYLOXY)PROPANOL



CAS No.: 34590-94-8 EC No.: 252-104-2 REACH No.: 01-2119450011-60-XXXX Concentration: 5 - 10% The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Substance with a community workplace exposure limit

### INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES

Concentration: 50 - 60% The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

#### WATER

CAS No.: 7732-18-5 Concentration: 22,5 - 43,75% The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

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

### **SECTION 4: First aid measures**

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

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

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



#### 5.2 Special hazards arising from the substance or mixture

The product itself does not burn.

#### 5.3 Advice for firefighters

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

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

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

#### 6.4 Reference to other sections

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

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid Skin contact

Eve 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.



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)
Iron.
Steel
Unsuitable container/equipment material
Aluminium
Light metal
Copper
Zinc
Alloy, containing copper
Alloy, contains light metal
Hints on joint storage
Storage class
12: non-combustible liquids that cannot be assigned to any of the above storage classes
Specific end use(s)
Fire-extinguishing foam based on protein hydrolysate and fluorinated surfactants

Do not use for cleaning purposes.

#### Recommendation

Observe technical data sheet.

### **SECTION 8: Exposure controls/personal protection**

Control parameters
Substance name: (2-METHOXYMETHYLOXY)PROPANOL
CAS No.: 34590-94-8
REACH No.: 01-2119450011-60-XXXX
United Kingdom
Long-term occupational exposure limit value: 50 ppm; Limit value type (country of origin): TWA (EN)
short-term occupational exposure limit value:; Limit value type (country of origin): STEL (EN)
European Union
Long-term occupational exposure limit value: 50 ppm; Limit value type (country of origin): TWA (EC)
short-term occupational exposure limit value:; Limit value type (country of origin): STEL (EC)
Germany
Long-term occupational exposure limit value: 50 ppm; Limit value type (country of origin): AGW (DE)
short-term occupational exposure limit value:; Limit value type (country of origin): Peak (DE) Ireland
Long-term occupational exposure limit value: 50 ppm; Limit value type (country of origin): TWA (IE)
short-term occupational exposure limit value:; Limit value type (country of origin): STEL (IE)
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**

					emical properties		
a)	Physical state			:	Liquid		
b)	Colour			:	dark brown / black		
C)	Odour			:	earthy		
d	Melting point/free	zing point		:	-15°C	EN 1568:2018	3
e)	Boiling point or in	nitial boiling point a	and boiling	3			
	range			:	> 100°C	DIN 51751	
f)	Flammability			:	not applicable		
g	Lower and upper	explosion limit/flar	mmability				
	limit			:	No data available		
h)	Flash point			:	No flash point up to 100 °C.		
i)	Ignition temperate	ure in °C		:	not applicable		
j)	Decomposition te	emperature		:	No data available		
k)	рН	at °C	20	:	6,5 - 8,0	DIN 19268	
I)	Viscosity	at °C	20	:	< 30 mm²/s	DIN 51562	Newton
		at °C	-15	:	< 200 mm²/s	DIN 51562	Newton
m	) Solubility			:	Water: completely miscible	OECD 105	
n	Partition coefficie	nt n-octanol/water	(log				
-	value)			:	not applicable		



0)	Vapour pressure	:	No data available	
p)	Density and/or relative		1 150 1 100 m/ml	DIN 19701
۳)	density at °C 20	:	1,150 - 1,190 g/ml	DIN 12791
q) ->	Relative vapour density		No data available	
r)	particle characteristics	:	not applicable	
	ther information			
	formation with regard to physical haz	ara		
a) ⊾\	Explosives	:	not applicable	
b)	Explosives	:	not applicable	
c)	Aerosols	:	not applicable	
d)	Oxidising gas	:	not applicable	
e)	Gases under pressure	:	not applicable	
f)	Flammable liquids	:	not applicable	
g)	Flammable solids Self-reactive substances and mixtures	:	not applicable	
h)		:	not applicable	
i) i)	Pyrophoric liquids Pyrophoric solids		not applicable	
j)		:	not applicable	
k) I)	Self-heating substances and mixtures Substances or mixtures which, in contact w	: ith	not applicable	
ŋ	water, emit flammable gases		not applicable	
m)	• · · · · · · ·	:	not applicable	
n)	Oxidizing solids	:	not applicable	
o)	Organic peroxides	:	not applicable	
p)	Corrosive to metals	:	See section 7 of the safety data she	set
q)	Desensitised explosives	:	not applicable	
Ot	her safety characteristics			
a)	Mechanical sensitivity		not applicable	
b)	Self-accelerating polymerisation temperatur	P	not applicable	
•,	(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	
ý g)	Conductivity	:	~ 19500 µS/cm	
h)	Corrosiveness	:	Skin corrosion/irritation: none	
,			Serious eye damage/irritation: none	
i)	gas group	:	not applicable	
j)	Redox potential	:	not applicable	
<i>i</i> /k)	radical formation potential	:	not applicable	
ı)	photocatalytic properties	:	not applicable	

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

 Pyrolysis products, containing fluorine

 Fluorinated hydrocarbons

 Hydrofluoric acid

### **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 a) Acute toxicity Acute oral toxicity

Acute oral to:	xicity	
Preparation re	lated information	
LD50	> 2000 mg/kg	The acute oral toxicity is corresponding to GHS-category 5.
Species	Rat	
Method	Calculation method	J.
Information on	n ingredients	
FLUOROSUR	RFACTANT:	
LD50	) (14d) > 5000 mg/kg ==:	>
		sponding to GHS-category 5.
	rce: ECHA database «Re	egistered substances»)
( )	FATE-7-HYDRATE:	
	) (14d) 500 mg/kg ==>	
	nful if swallowed.	
	rce: ECHA database «Re	
•	METHYLOXY)PROPAN	
	) (14d) >5000 mg/kg ==>	
	•	sponding to GHS-category 5.
•	rce: ECHA database «Re	egistered substances») HAZARDOUS SUBSTANCES:
		fied as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
	lassification in the above-	
	rce: Safety Data Sheet)	
(000	loo. Galoty Bata chooty	
Acute derma	l toxicitv	
	lated information	
	data available on the mixt	ure itself.
Information on	inaredients	
FLUOROSUR		
LD50	) (14d) > 5000 mg/kg ==:	>
		prresponding to GHS-category 5.
	rce: ECHA database «Re	
	FATE-7-HYDRATE:	· ·
LD50	) (14d) > 2000 mg/kg ==:	>



The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») (2-METHOXYMETHYLOXY)PROPANOL: LC50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP]. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) Acute inhalation toxicity Preparation related information There are no data available on the mixture itself. Information on ingredients FLUOROSURFACTANT: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: LC50 (3h) > 1100 mg/m3 ==> The acute inhalation toxicity related to dust/mist is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») (2-METHOXYMETHYLOXY)PROPANOL: NOEC (7h) 275 ppm ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP]. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) b) Skin corrosion/irritation Preparation related information non-irritant. Species Method Calculation method. Information on ingredients FLUOROSURFACTANT: non-irritant. (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: Causes skin irritation. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: non-irritant. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: non-irritant. (Source: Safety Data Sheet) c) Serious eye damage/irritation Preparation related information non-irritant. Species Calculation method. Method Information on ingredients FLUOROSURFACTANT:





Causes serious eye irritation. (Source: Safety Data Sheet) *IRON-(II)-SULFATE-7-HYDRATE:* Causes serious eye irritation. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: non-irritant. (Source: Safety Data Sheet) *INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:* non-irritant. (Source: Safety Data Sheet)

#### d) Respiratory or skin sensitisation

Preparation related information There are no data available on the mixture itself. Information on ingredients FLUOROSURFACTANT: not sensitising. (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: not sensitising. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: not sensitising. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: not sensitising. (Source: Safety Data Sheet)

#### e) Germ cell mutagenicity

Preparation related information There are no data available on the mixture itself. Information on ingredients FLUOROSURFACTANT: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet)

#### f) Carcinogenicity

Preparation related information There are no data available on the mixture itself. Information on ingredients FLUOROSURFACTANT: No indication of human carcinogenicity. (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet)



INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No indication of human carcinogenicity. (Source: Safety Data Sheet)

#### g) Reproductive toxicity

Preparation related information
There are no data available on the mixture itself.
Information on ingredients
FLUOROSURFACTANT:
No indications of human reproductive toxicity exist.
(Source: Safety Data Sheet)
IRON-(II)-SULFATE-7-HYDRATE:
No indications of human reproductive toxicity exist.
(Source: Safety Data Sheet)
(2-METHOXYMETHYLOXY)PROPANOL:
No indications of human reproductive toxicity exist.
(Source: Safety Data Sheet)
INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
No indications of human reproductive toxicity exist.
(Source: Safety Data Sheet)

#### h) STOT-single exposure

Preparation related information There are no data available on the mixture itself. Information on ingredients FLUOROSURFACTANT: No known symptoms to date. (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: No known symptoms to date. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet)

#### i) STOT-repeated exposure

Preparation related information There are no data available on the mixture itself. Information on ingredients FLUOROSURFACTANT: No known symptoms to date. (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: No known symptoms to date. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet)

#### j) Aspiration hazard

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



Information on ingredients FLUOROSURFACTANT: No known symptoms to date. (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: No known symptoms to date. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet)

#### 11.2 Information on other hazards

Endocrine disrupting properties Preparation related information There are no data available on the mixture itself. Information on ingredients FLUOROSURFACTANT: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) IRON-(II)-SULFATE-7-HYDRATE: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)

### Other information

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

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Acute (short-term) fi	sh toxicity	1	
Preparation related in			
Effective dose	LC50	: ~ 1500	mg/L
Exposure time		:48 h	J.
Species		: Leuciscus i	dus (golden orfe)
Method		: On basis of	f test data.: DIN 38412 / part 15
Information on ingred	ients		
FLUOROSURFACTA	NT:		
LC50 (96h)	> 35 mg/L		
(Source: EC	HA databa	se «Registered	substances»)
IRON-(II)-SULFATE-	7-HYDRAT	E:	
LC50 (96h)	> 16,6 mg/L	-	
(Source: EC	HA databa	se «Registered	substances»)
(2-METHOXYMETH)	(LOXY)PR	OPANOL:	
LC50 (96h)	> 10000 mg	g/L	
(Source: EC	HA databa	se «Registered	substances»)
INGREDIENTS NOT	CLASSIFIE	ED AS HAZARI	DOUS SUBSTANCES:
No classifica	ition in the a	above-mentione	ed hazard class
(Source: Sat	iety Data Sl	heet)	



Preparation related in	-	quatic invertel		
Effective dose	EC50	: ~ 10900	mg/L	
Exposure time		: 24 h	0	
Species		: Daphnia ma	agna (Big water flea)	
Method			test data .: DIN 38412 / part 11	
Information on ingred	lients			
FLUOROSURFACT				
EC50 (48h)				
( )	0	se «Registered	substances»)	
IRON-(II)-SULFATE-				
• •	) > 1,29 mg/			
	-	se «Registered	substances»)	
(2-METHOXYMETH			,	
EC50 (48h)	1919 mg/L			
(Source: EC	CHA databa	se «Registered	substances»)	
INGREDIENTS NOT	CLASSIFIE	ED AS HAZARI	OOUS SUBSTANCES:	
No classific	ation in the a	above-mentione	ed hazard class	
(Source: Sa	ifety Data S	neet)		
Acute (short-term)	oxicity to a	Igae and cyan	obacteria	
Preparation related in	nformation			
Effective dose	EC50	: ~620	mg/L	
Exposure time		: 72 h		
Species		: Scenedesm	nus subspicatus	
Method		: On basis of	test data.: DIN 38412 / part 9	
Information on ingred	lients			
FLUOROSURFACT	ANT:			
EC50 (72h)	3,26 mg/L			
· · ·	-	se «Registered	substances»)	
IRON-(II)-SULFATE-	7-HYDRAT	E:	·	
No data ava	ailable			
(Source: Sa	fety Data S	neet)		
(2-METHOXYMETH	YLOXY)PR	OPANOL:		
EC50 (96h)	> 1000 mg/	L; NOEC (96h)	569 mg/L	
(Source: EC	CHA databa	se «Registered	substances»)	
			DOUS SUBSTANCES:	
		above-mentione	ed hazard class	
(Source: Sa	ifety Data S	neet)		
Effects in sewage p				
Preparation related in				
			nunicipal activated sludge.	
30000 mg/L	Cor	ncentration	: 100% Dilution	: > 33
1000000 mg/L		ncentration	: 3% Dilution	:>1
Method	: On basis of	of test data.: DI	N 38412/part 3 (TTC)	
Information on ingred	<u>lients</u>			
FLUOROSURFACT	ANT:			
EC50 (3h) >	>1000 mg/L			
		se «Registered	substances»)	
IRON-(II)-SULFATE-	7-HYDRAT	E:		
No data ava				
(Source: Sa	•	,		
(2-METHOXYMETH	,	OPANOL:		
NOEC (2h)	4168 mg/L			
		_		
(Source: EC	CHA databa	se «Registered	substances») DOUS SUBSTANCES:	





(Source: Safety Data Sheet)

The product contains fluorosurfactants that are not completely biodegradable. Some of the components are poorly biodegradable.

#### Remark

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

Persistence and	l degradability					
Biodegradation						
Preparation related infor	mation					
Readily biodegradable (	according to OECD cri	teria).				
Additional information	: The product	contains fluc	prosurfactants that	at are not completely biod	legradable.	
Degradation rate	: ~ 85,1%					
Test duration	: 28 d					
Analytical method	: BOD (% of 0	COD).				
Method	: On basis of	test data.: OB	ECD 301F			
Туре	: Aerobic biolo	ogical treatme	ent			
Information on ingredien	<u>ts</u>					
FLUOROSURFACTAN						
0% (28d) OEC	D 301 F					
Not readily bio	legradable (according	to OECD crit	teria)			
•	database «Registere	d substances	s»)			
IRON-(II)-SULFATE-7-H						
No data availal	ble					
not applicable						
(Source: Safet						
(2-METHOXYMETHYL) 79% (28d) OE	,					
	radable (according to (	OFCD critori	a)			
	database «Registere					
INGREDIENTS NOT CL						
> 70% (28d) O			0.7.110207			
	radable (according to (	OECD criteria	a).			
(Source: Safet			,			
Chemical oyxgen dem	and (COD)					
~ 793000 mg *O2/L	<ul> <li>Concentration</li> </ul>	: 100%	Method	DIN EN 38409-H4	11-1	
~23790 mg *O2/L	<ul> <li>Concentration</li> </ul>	: 3%	Method	DIN EN 38409-H4	11-1	
Biochemical oxygen d	emand					
~ 270000 mg *O2/L	<ul> <li>Concentration</li> </ul>	: 100%	Method	DIN EN 1899-1	Test duration	5 d
~8100 mg *O2/L	<ul> <li>Concentration</li> </ul>	: 3%	Method	DIN EN 1899-1	Test duration	5 d
BOD5/COD ratio						
34%						
Bioaccumulativ	e notential					
Preparation related infor						
There are no data availa		If				
Information on ingredien						
FLUOROSURFACTAN						
BCF < 5.1						
,						
No indication o	t bioaccumulation pote	ential.				
	f bioaccumulation pote database «Registere		s»)			



BCF < 20 No indication of bioaccumulation potential. (Source: ECHA database «Registered substances») ////////////////////////////////////
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JIENTS NUT GLASSIFIED AS HAZARDOUS SUBSTANCES.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (Source: Safety Data Sheet)
crine disrupting properties
tion related information
re no data available on the mixture itself.
ion on ingredients
OSURFACTANT:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
I)-SULFATE-7-HYDRATE:
This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
HOXYMETHYLOXY)PROPANOL:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)
DIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)

#### \_\_\_\_\_

### **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

**160306** organic wastes other than those mentioned in 16 03 05

#### 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.

: No

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

nt

#### 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



-	Chemical Safety Assessment Chemical safety assessments for substances in this mixture were not carried out.
	Annex Chemikalien-Verbotsverordnung (ChemVerbotsV) not applicable
	Self-classification according to AwSV (mixture).
	slightly hazardous to water (WGK 1)
	Water hazard class
	This product is not classified according to StörfallV.
	Störfallverordnung (12. BlmschV)
	National regulations
	manufacturer for the time before that.
	The product fulfills all requirements and limit values of this EU regulation. The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the
	Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation]
	The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the manufacturer for the time before that.
	The product fulfills all requirements and limit values of this EU regulation.
	Regulation (EC) No 2020/784 [PFOA-Regulation]
	manufacturer for the time before that.
	The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the
	The product fulfills all requirements and limit values of this EU regulation.
	Regulation (EC) No 2019/1021 [POP/PFOS-Regulation]
	not applicable
	Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases
	Volatile organic compounds (VOC) content in percent by weight:: max. 10
	Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).
	The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on deterged
	Regulation (EC) No. 648/2004 [Detergents regulation]
	not applicable
	Directive 96/59/EC (PCB-guideline)
	not applicable
	chemicals
	Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous

## **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% application solution of FOAMOUSSE-FFFP 3% F-15 #5331:

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.
- H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

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