

V-11 Print date: 28.10.21 Page 1 of 18

S Dr. STHAMER HAMBURG

SEC	TION 1: Identification of the	substance/mixture and of the company/undertaking
1.1	Product identifier	
	FOAMOUSSE <sup>®</sup> -FP/AR	3/3 F-15 #5321
	UFI: 6UQF-A0FC-100X-M07E	
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 hydroly	rsate and fluorinated surfactants
1.3	Details of the supplier of the sa	fety data sheet
	Manufacturer	Fabrik chemischer Präparate von Dr. R. Sthamer GmbH & Co. KG
	Street	Liebigstraße 5
	Postal code/City	D-22113 Hamburg
	Country	Deutschland
	Telephone	+49 (0)40/736168-0
	Telefax	+49 (0)40/736168-60
	E-mail (competent person)	labor@sthamer.com
	Website	http://sthamer.com
	Department responsible for information	Dr. Prall, +49 (0)40/736168-31
	Emergency telephone number	+49 (0)40/736168-0
1.4	Emergency telephone number	
	GIZ-Nord Poisons Centre of the University of Gö	ıttingen
	Telephone	+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).

	Classification according to R	equiation (EC) No 1272/2	xture 2008 (CLP)
	•	• • •	gulation (EC) No 1272/2008 [CLP].
2.2	Label elements		
	Labelling according to Regul	ation (EC) No. 1272/2008	[CLP]
	Hazard pictograms	$\land$	
	Signal word	The mixture is of 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	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].

Revision date: 18.10.2021

SD - 5321 - V11 - SCHAUMGEIST-FPxAR 3x3 F-15 #5321 - FOAMOUSSE-FPxAR 3x3 F-15 #5321 - EN



S

V-11 Print date: 28.10.21 Page 2 of 18

Dr. STHAMER HAMBURG

	Classification procedure Calculation method.
2.3	Other hazards
	Endocrine disrupting properties
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	IRON-(II)-SULFATE-7-HYDRATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	FLUOROSURFACTANT:
	This substance does not have endocrine disrupting properties with respect to humans.
	(2-METHOXYMETHYLOXY)PROPANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	This substance does not have endocrine disrupting properties with respect to humans.
	Results of PBT and vPvB assessment
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	IRON-(II)-SULFATE-7-HYDRATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	FLUOROSURFACTANT:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(2-METHOXYMETHYLOXY)PROPANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
	The data refer to the product as delivered. The solutions for use produced according to dilution recommendations are to be classified differently.
	Can harm the aquatic fauna when entering surface waters.
	Can harm the bacteria population in waste water treatment plants when entering the sewerage system.
	Breathing is not possible whilst submerged in the foam. Take care when spraying people!
	The product contains fluerocurfectents that are not completely biodegradable

The product contains fluorosurfactants that are not completely biodegradable.

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

#### 3.1 Substances

not applicable

### 3.2 Mixtures

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; H302-H315-H319

### FLUOROSURFACTANT

Concentration: 0,1 - 1%

The concentration of the raw material is below the limit value above which a substance contained in a mixture must be listed (Regulation (EU) 2020/878, Section 3.2.1, Table 1.1). The listing is voluntary as part of the customer information.

#### (2-METHOXYMETHYLOXY)PROPANOL CAS No.: 34590-94-8



V-11 Print date: 28.10.21 Page 3 of 18

R. STHAMER MAMBURG

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: 24 - 43,9% 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.

Full text of H- and EUH-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

Revision date: 18.10.2021

SD - 5321 - V11 - SCHAUMGEIST-FPxAR 3x3 F-15 #5321 - FOAMOUSSE-FPxAR 3x3 F-15 #5321 - EN





V-11 Print date: 28.10.21 Page 4 of 18

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

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

The product itself does not burn.

#### 5.3 Advice for firefighters

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

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

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

Provide adequate ventilation.

#### 6.2 Environmental precautions

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

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

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

#### 6.4 Reference to other sections

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

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

#### 7.1 Precautions for safe handling

Avoid Skin contact

Eye contact

Wear personal protection equipment (refer to section 8).

#### Measures to prevent fire

The product is not oxidising Combustible Flammable Explosive Highly flammable

No special fire protection measures are necessary.

#### **Environmental precautions**





V-11 Print date: 28.10.21 Page 5 of 18

	Advices on general occupational hygiene
	When using do not eat, drink, smoke, sniff.
2	Conditions for safe storage, including any incompatibilities
	Technical measures and storage conditions
	Do not store at temperatures above: +50°C
	Requirements for storage rooms and vessels
	Suitable container/equipment material
	Refined steel
	Polyethylene (PE)
	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
.3	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.

8.1	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)



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V-11 Print date: 28.10.21 Page 6 of 18

Dr. STHAMER HAMBURG

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: not applicable

g) Lower and upper explosion limit/flammability : No data available

Flammability

f)



V-11 Print date: 28.10.21 Page 7 of 18

S Dr. STHAMER HAMBURG

						-
		limit				
	h)	Flash point	:	No flash point up to 100 °C.		
	i)	Ignition temperature in °C	:	not applicable		
	j)	Decomposition temperature	:	No data available		
	k)	pH at °C 20	:	6,5 - 8,0	DIN 19268	
	I)	Viscosity at °C 20	:	< 40 mm²/s	DIN 51562	Newton
		at °C -15	:	< 200 mm²/s	DIN 51562	Newton
	m)	•	:	Water: completely miscible	OECD 105	
	n)	Partition coefficient n-octanol/water (log				
		value)	:	not applicable		
	0)	Vapour pressure	:	No data available		
	p)	Density and/or relative		4 4 50 4 4 00 1 1	DIN 40704	
	,	density at °C 20	:	1,150 - 1,190 g/ml	DIN 12791	
	(p	Relative vapour density	:	No data available		
	r)	particle characteristics	:	not applicable		
9.2	<b>^</b> 4	her information				
<b>J.</b> Z		ormation with regard to physical haza	rd c			
		Explosives				
	a) b)	Explosives	•	not applicable		
		Aerosols	:	not applicable		
	c)		•	not applicable		
	d) a)	Oxidising gas Gases under pressure	•	not applicable		
	e) Ð	Flammable liquids	:	not applicable		
	f) a\	Flammable solids	•	not applicable		
	g) b)	Self-reactive substances and mixtures	:	not applicable		
	h)		:	not applicable		
	i) i)	Pyrophoric liquids	•	not applicable		
	j)	Pyrophoric solids	:	not applicable		
	k) I)	Self-heating substances and mixtures Substances or mixtures which, in contact with	:	not applicable		
	"	water, emit flammable gases	۰.	not applicable		
	m)	Oxidising liquids	:	not applicable		
	n)	Oxidizing solids	:	not applicable		
	o)	Organic peroxides		not applicable		
	с) р)	Corrosive to metals	:	See section 7 of the safety data sheet.		
	q)	Desensitised explosives	:	not applicable		
	ч/		•			
	Ot	her safety characteristics				
	a)	Mechanical sensitivity	:	not applicable		
	b)	Self-accelerating polymerisation temperature				
		(SAPT)	:	not applicable		
	C)	formation of explosible dust/air mixtures	:	not applicable		
	d)	acid/alkaline reserve	:	not applicable		
	e)	Evaporation rate	:	No data available		
	f)	miscibility	:	Water: completely miscible		
	g)	Conductivity	:	> 20000 µS/cm		
	h)	Corrosiveness	:	Skin corrosion/irritation: none		
				Serious eye damage/irritation: none		
	i)	gas group	:	not applicable		
	j)	Redox potential	:	not applicable		
	k)	radical formation potential	:	not applicable		
	I)	photocatalytic properties	:	not applicable		

Revision date: 18.10.2021 SD - 5321 - V11 - SCHAUMGEIST-FPXAR 3x3 F-15 #5321 - FOAMOUSSE-FPxAR 3x3 F-15 #5321 - EN



S

V-11 Print date: 28.10.21 Page 8 of 18

Dr. STHAMER HAMBURG

### Additional hazards

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

	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	i Incompatible materials	
	See section 7. No additional measures necessary.	
10.6	Hazardous decomposition products	
	Pyrolysis products, containing fluorine	
	Fluorinated hydrocarbons	
	Hydrofluoric acid	

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE: LD50 (14d) 500 mg/kg ==>

Harmful if swallowed.

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

LD50 (14d) > 5000 mg/kg ==>

The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:



**V-11** Print date: 28.10.21 Page 9 of 18

S Dr. STHAMER HAMBURG

LC50 (14d) >5000 mg/kg ==>	
The acute oral 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 dermal toxicity	
Preparation related information	
There are no data available on the mixture itself.	
Information on ingredients	
IRON-(II)-SULFATE-7-HYDRATE:	
LD50 (14d) > 2000 mg/kg ==> The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
FLUOROSURFACTANT:	
LD50 (14d) > 5000 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	
IRON-(II)-SULFATE-7-HYDRATE:	
LC50 (3h) > 1100 mg/m <sup>3</sup> ==>	
The acute inhalation toxicity related to dust/mist is corresponding to GHS-category 5. (Source: ECHA database «Registered substances»)	
FLUOROSURFACTANT:	
No data available	
No information available. No classification in the above-mentioned hazard class	
(Source: Safety Data Sheet)	
(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	



S

V-11 Print date: 28.10.21 Page 10 of 18

Dr. STHAMER HAMBURG

### IRON-(II)-SULFATE-7-HYDRATE: Causes skin irritation. (Source: Safety Data Sheet) FLUOROSURFACTANT: non-irritant. (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 Method Calculation method. Information on ingredients IRON-(II)-SULFATE-7-HYDRATE: Causes serious eye irritation. (Source: Safety Data Sheet) FLUOROSURFACTANT: non-irritant. (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 IRON-(II)-SULFATE-7-HYDRATE: not sensitising. (Source: Safety Data Sheet) FLUOROSURFACTANT: 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 IRON-(II)-SULFATE-7-HYDRATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet)





**V-11** Print date: 28.10.21 Page 11 of 18

FLUOROSURFACTANT: 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 IRON-(II)-SULFATE-7-HYDRATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) FLUOROSURFACTANT: 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 IRON-(II)-SULFATE-7-HYDRATE: No indications of human reproductive toxicity exist. (Source: Safety Data Sheet) FLUOROSURFACTANT: 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 IRON-(II)-SULFATE-7-HYDRATE: No known symptoms to date. (Source: Safety Data Sheet) FLUOROSURFACTANT: No known symptoms to date. (Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL: No known symptoms to date.





**V-11** Print date: 28.10.21 Page 12 of 18

	(Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet)
	i) STOT-repeated exposure <u>Preparation related information</u>
	There are no data available on the mixture itself.
	Information on ingredients
	IRON-(II)-SULFATE-7-HYDRATE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	FLUOROSURFACTANT:
	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
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	IRON-(II)-SULFATE-7-HYDRATE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	FLUOROSURFACTANT:
	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	
	Endocrine disrupting properties
	<u>Preparation related information</u> There are no data available on the mixture itself.
	Information on ingredients
	IRON-(II)-SULFATE-7-HYDRATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	FLUOROSURFACTANT:
	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.
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
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**V-11** Print date: 28.10.21 Page 13 of 18

Dr. STHAMER HAMBURG

Other information

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

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

oxicity					
Acute (short-term) fis	•				
Preparation related info					
Effective dose	LC50	: > 1000*	mg/L		
Exposure time		:48 h			
Species			lus (golden orfe)		
Method		: Bridging prir	ciple "Substantial	y similar mixtures".	
Information on ingredie					
IRON-(II)-SULFATE-7					
LC50 (96h) >	•				
•		e «Registered s	substances»)		
FLUOROSURFACTA LC50 (96h) >					
		e «Registered s	substances»)		
(2-METHOXYMETHY			5005tan 1005//		
LC50 (96h) >	,				
		e «Registered s	substances»)		
INGREDIENTS NOT (				ES:	
No classificat	ion in the a	bove-mentione	d hazard class		
(Source: Safe	ety Data Sh	neet)			
Acute (short-term) to		rustacea			
Preparation related info		(000+			
Effective dose	EC50	: > 1000*	mg/L		
Exposure time		: 24 h			
Species		-	gna (Big water fle		
Method		: Bridging prir	ciple "Substantial	y similar mixtures".	
Information on ingredie		-			
IRON-(II)-SULFATE-7					
EC50 (48h) :			vubetanaca»)		
(Source: ECF FLUOROSURFACTA		e «Registered s	substances»)		
EC50 (48h) 1					
( )	•	e «Registered s	substances»)		
(2-METHOXYMETHY		-			
EC50 (48h) 1	,				
· · ·	-	e «Registered s	substances»)		
INGREDIENTS NOT (				ES:	
No classificat	ion in the a	bove-mentione	d hazard class		
(Source: Safe	ety Data Sł	neet)			
Acute (short-term) to		lgae and cyano	bacteria		
Preparation related info					
Effective dose	EC50	: > 100 < 100	0* mg/L		
Exposure time		: 72 h			
Species			us subspicatus		
Method		: Bridging prir	ciple "Substantial	y similar mixtures".	

Revision date: 18.10.2021 SD - 5321 - V11 - SCHAUMGEIST-FPxAR 3x3 F-15 #5321 - FOAMOUSSE-FPxAR 3x3 F-15 #5321 - EN





**V-11** Print date: 28.10.21 Page 14 of 18

IRON-(II)-SULFATE-7	-HYDRATE:							
No data avai								
	ety Data Sheet)							
FLUOROSURFACTA								
EC50 (72h) 3	-							
	HA database «Registered su	ibstances»)						
(2-METHOXYMETHY	> 1000 mg/L; NOEC (96h) 56	60 ma/l						
	HA database «Registered su							
	CLASSIFIED AS HAZARDO		CES:					
	tion in the above-mentioned							
(Source: Saf	ety Data Sheet)							
Effects in sewage pla	ants							
Preparation related inf	ormation							
	Respiratory inhibition of mu	nicipal activated	sludge.					
10000* mg/L	<ul> <li>Concentration</li> </ul>	: 100%	Dilution	: > 100*				
333300* mg/L	<ul> <li>Concentration</li> </ul>	: 3%	Dilution	: > 3*				
Method :	Bridging principle "Substant	ially similar mixt	ures".					
Information on ingredi								
IRON-(II)-SULFATE-7-HYDRATE:								
No data available								
(Source: Safety Data Sheet)								
FLUOROSURFACTANT:								
EC50 (3h) >1000 mg/L (Source: ECHA database «Registered substances»)								
	(Source: ECHA database «Registered substances») (2-METHOXYMETHYLOXY)PROPANOL:							
NOEC (3h) 4	,							
	HA database «Registered su	ubstances»)						
•	CLASSIFIED AS HAZARDO	,	CES:					
No classifica	tion in the above-mentioned	hazard class						
(Source: Safety Data Sheet)								
	fluorosurfactants that are not		degradable.					
Some of the compone	Some of the components are poorly biodegradable.							
Remark								
-	ons concerning effluent treat	ment.						
Special pre-treatments	are necessary.							
* The statement is der	ived from products of similar	structure or cor	nposition.					
Persistence a	nd degradability							
Biodegradation								
Preparation related inf								
	e (according to OECD criteria	,						
Additional information	: The product cor	ntains fluorosurfa	actants that are no	ot completely biodegradable.				
Degradation rate	: > 70%*							
Test duration	: 28 d							
Analytical method	: BOD (% of COE	D).						
Method	Bridging principl	e "Substantially	similar mixtures".					
Туре	: Aerobic biologic							
Type Information on ingredi	-	articatificit						





**V-11** Print date: 28.10.21 Page 15 of 18

	not applicable	Э						
	(Source: Safe		ata Sheet)					
	FLUOROSURFACTA							
	0% (28d) OE		01 E					
	· · · ·		adable (according t	o OECD crit	(ciro			
			tabase «Registered					
	(2-METHOXYMETHY			1 3003101063	5″)			
	79% (28d) O							
			able (according to C					
			tabase «Registered					
	INGREDIENTS NOT		-		,			
	> 70% (28d)			0003 300	STANCES.			
	( )		able (according to C	)ECD criteria	a)			
	(Source: Safe	-	• •		<i></i>			
			ita Oneel)					
	Chemical oyxgen de	mand						
				. 1000/	Mathad		4.4	
	< 150000* mg*O2/L			: 100%	Method	DIN EN 38409-H4		
	< 45000* mg*O2/L		Concentration	: 3%	Method	DIN EN 38409-H4	1-1	
	<b>.</b>							I
	Biochemical oxygen							
	< 600000* mg*O2/L	-		: 100%	Method	DIN EN 1899-1	Test duration	5 d
	< 18000* mg*O2/L		Concentration	: 3%	Method	DIN EN 1899-1	Test duration	5 d
	BOD5/COD ratio							
	40%							
	* The statement is der	ived fr	rom products of sim	ilar structure	or composition			
					or composition.			
			·					
12.3	Bioaccumulati		·					
12.3		ve p	otential					
12.3	Preparation related inf	<b>ve p</b> ormat	<b>potential</b>					
12.3	Preparation related inf There are no data ava	<b>ve p</b> ormat ilable	<b>potential</b>					
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12.3	Preparation related inf There are no data ava Information on ingredie IRON-(II)-SULFATE-7	<b>ve p</b> ormat ilable ents	<b>potential</b> ion on the mixture itself					
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12.4	Preparation related inf There are no data ava Information on ingredie IRON-(II)-SULFATE-7 BCF < 20 No indication (Source: ECH FLUOROSURFACTA BCF < 5,1 No indication (Source: ECH (2-METHOXYMETHY log Kow < 1 No indication (Source: ECH INGREDIENTS NOT No classificat No informatic (Source: Safe <b>Mobility in soil</b> If product enters soil, it	verial ormati ilable ents -HYD of bic IA da NT: of bic IA da LOXY of bic IA da LOXY of bic IA da LOXY of bic IA da LOXY of bic IA da LOXY is will b	potential         ion         on the mixture itself         RATE:         vaccumulation potentabase «Registered         vaccumulation potentabase (Registered         vaccumulation potentabase (Registered	f. htial. I substances htial. I substances DOUS SUB ed hazard c tion in the al	s») s») STANCES: lass bove-mentioned	hazard class		
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Revision date: 18.10.2021 SD - 5321 - V11 - SCHAUMGEIST-FPXAR 3x3 F-15 #5321 - FOAMOUSSE-FPxAR 3x3 F-15 #5321 - EN





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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878 FOAMOUSSE®-FP/AR 3/3 F-15 #5321 V-11 Print date: 28.10.21 Page 16 of 18

	Information on ingredients
	IRON-(II)-SULFATE-7-HYDRATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	FLUOROSURFACTANT:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	(2-METHOXYMETHYLOXY)PROPANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
	(Source: Safety Data Sheet)
12.6	Endocrine disrupting properties
12.6	Endocrine disrupting properties Preparation related information
12.6	
12.6	Preparation related information
12.6	Preparation related information There are no data available on the mixture itself.
12.6	Preparation related information There are no data available on the mixture itself. Information on ingredients
12.6	Preparation related information There are no data available on the mixture itself. Information on ingredients IRON-(II)-SULFATE-7-HYDRATE:
12.6	Preparation related information There are no data available on the mixture itself. Information on ingredients IRON-(II)-SULFATE-7-HYDRATE: This substance does not have endocrine disrupting properties with respect to humans.
12.6	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         IRON-(II)-SULFATE-7-HYDRATE:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)
12.6	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         IRON-(II)-SULFATE-7-HYDRATE:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)
12.6	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         IRON-(II)-SULFATE-7-HYDRATE:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         (2-METHOXYMETHYLOXY)PROPANOL:
12.6	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         IRON-(II)-SULFATE-7-HYDRATE:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)
12.6	Preparation related information         There are no data available on the mixture itself.         Information on ingredients         IRON-(II)-SULFATE-7-HYDRATE:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         This substance does not have endocrine disrupting properties with respect to humans.         (Source: Safety Data Sheet)         FLUOROSURFACTANT:         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)

#### 12.7 Other adverse effects

The product contains fluorosurfactants that are not completely biodegradable.

### **SECTION 13: Disposal considerations**

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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
- 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.



9

V-11 Print date: 28.10.21 Page 17 of 18

r.STHAMER HAMBURG

	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 : No						
14.6	Special precautions for user						
	none						
	Maritime transport in bulk according to IMO instruments						
14.7	not applicable						

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

EU legislation Regulation (EC) No. 2037/2000 concer

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

Regulation (EC) No. 304/2003 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).



**V-11** Print date: 28.10.21 Page 18 of 18

**. STHAMER** HAMBURG

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 fulfills all requirements and limit values of this EU regulation.

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

The product fulfills all requirements and limit values of this EU regulation.

Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation] The product fulfills all requirements and limit values of this EU regulation.

#### National regulations Störfallverordnung

This product is not classified according to StörfallVO.

# 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% application solution of FOAMOUSSE-FP/AR 3/3 F-15 #5321:

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.

#### Relevant R-, H- and EUH-phrases (Number and full text)

H302Harmful if swallowed or if inhaled.H315Causes skin and eye irritation.

H319 Causes serious eye irritation.