



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

STHAMEX[®]-AFFF 6% F-35 #4642



.1	Product identifier	
	STHAMEX [®] -AFFF 6%	• F-35 #4642
	UFI: QJUD-N0ST-200W-F6JM	I
.2	Relevant identified uses of the s	substance or mixture and uses advised against
	Use of the substance/mixture Fire-extinguishing foam	
	Manufacturer	Fabrik chemischer Präparate von Dr. R. Sthamer GmbH & Co. KG
.3	Details of the supplier of the saf Manufacturer	<i>,</i>
	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	

SECTION 2: Hazards identification

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

2.1	Classification of the Classification according to R Acute Tox 4 H302 - Eye Irrit. 2	Regulation (EC) No 1272/2	2008 [CLP]	
2.2	Label elements			
	Labelling according to Regul	lation (EC) No. 1272/2008	ICLP]	
	Hazard pictograms			
	Signal word	WARNING	\checkmark \checkmark	
	Hazard statements	H302	Harmful if swallowed or if inhaled.	
		H319	Causes serious eye irritation.	
		H373.8	May cause damage to kidneys through prolong	ed or repeated exposure if swallowed.
	Precautionary statements	P262	Do not get in eyes, on skin, or on clothing.	
		P280	Wear protective gloves/protective clothing/eye protection/	protection/face protection/hearing
		P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce	e vomiting.
		P303+P361+P353	IF ON SKIN (or hair): Take off immediately all c	ontaminated clothing. Rinse skin with
avision c	late: 03 07 2023		Version: V/14	Replaces: 24.05.2023 (\/1





		P305+P351+P338	water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Classification procedure	Bridging principle "Su	bstantially similar mixtures".
2.3	Other hazards		
	Endocrine disrupting properties	5	
	Preparation related information		
	There are no data available on the	e mixture itself.	
	Information on ingredients		
	1,2-ETHANDIOL:	le a constante a discontra di secondi	
	2-(2-BUTOXYETHOXY)ETHANO		ng properties with respect to humans.
	,		ng properties with respect to humans.
	FLUOROSURFACTANT:		
	This substance does not	have endocrine disrupti	ng properties with respect to humans.
	Results of PBT and vPvB asses Preparation related information		
	There are no data available on the	e mixture itself.	
	Information on ingredients		
	1,2-ETHANDIOL:		
			eria of REACH, Annex XIII.
	2-(2-BUTOXYETHOXY)ETHANO		
	FLUOROSURFACTANT:	meet the PB1/VPVB cht	eria of REACH, Annex XIII.
		meet the PBT/vPvB crit	eria of REACH, Annex XIII.
	The data refer to the product as de	elivered. The solutions fr	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 fluorosurfact	•	
	Concentrated surfactant solutions	always pose a danger t	o aquatic life because they greatly reduce the surface tension of water thus disrupting
	all life processes associated with it	. In sewage treatment p	lants, for example, the necessary aeration of the sewage stages can be hindered by
	the strong foam formation.		

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

 1,2-ETHANDIOL

 CAS No.: 107-21-1

 EC No.: 203-473-3

 REACH No.: 01-2119456816-28-XXXX

 Concentration: 40 - 50%

 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: 1 - 5% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2; 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.

WATER

CAS No.: 7732-18-5 Concentration: 44 - 58,9% 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.

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.
1=0	TION 6: Accidental release measures
	TTON VI ACCIDENTAL LELEASE INEASULES
.1	Personal precautions, protective equipment and emergency procedures
	Provide adequate ventilation.
•	
.2	Environmental precautions
	Cover drains. Do not allow to enter into soil/subsoil.
	Do not allow to enter into soli/subsoli. Do not allow to enter into surface water or drains.
.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
.4	Reference to other sections
	Safe handling: see section 7
	Personal protection equipment: see section 8
EC	Disposal: see section 13
	TION 7: Handling and storage Precautions for safe handling
	TION 7: Handling and storage Precautions for safe handling Avoid
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact
	Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8).
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire
	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
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not oxidising Combustible Flammable
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not oxidising Combustible Flammable Explosive
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not oxidising Combustible Flammable
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not oxidising Combustible Flammable Explosive Highly flammable No special fire protection measures are necessary.
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not oxidising Combustible Flammable Explosive Highly flammable No special fire protection measures are necessary. Environmental precautions
	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not oxidising Combustible Flammable Explosive Highly flammable No special fire protection measures are necessary.
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.1	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not oxidising Combustible Flammable Explosive Highly flammable No special fire protection measures are necessary. Environmental precautions Shafts and sewers must be protected from entry of the product. Advices on general occupational hygiene When using do not eat, drink, smoke, sniff.
5EC 7.1	TION 7: Handling and storage Precautions for safe handling Avoid Skin contact Eye contact Wear personal protection equipment (refer to section 8). Measures to prevent fire The product is not oxidising Combustible Flammable Explosive Highly flammable No special fire protection measures are necessary. Environmental precautions Shafts and sewers must be protected from entry of the product. Advices on general occupational hygiene

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.

SECTION 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): STEL (IE)

Substance name: 2-(2-BUTOXYETHOXY)ETHANOL

CAS No.: 112-34-5

REACH No.: 01-2119475104-44-XXXX

United Kingdom

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

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

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

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



8.2 **Exposure controls** 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.

lı	nformation on basic physical and o	che	emical properties	
a	Physical state	:	Liquid	
b	Colour	:	colourless / yellow	
C)	Odour	:	Glycol, Ether, Surfactant	
d	Melting point/freezing point	:	-35°C	EN 1568:2018
e)	Boiling point or initial boiling point and boiling	g		
	range	:	> 100°C	DIN 51751
f)	Flammability	:	not applicable	
g	Lower and upper explosion limit/flammability			
	limit	:	No data available	



	h)	Flash point			No flash point up to 100 °C.		
	i)	Ignition temperature in °C		:			
		• .		•	not applicable		
	j)	Decomposition temperature		÷	No data available	DIN 40000	
	k)	pH at °C		:	6,5 - 8,5	DIN 19268	NI (
	I)	Viscosity at °C		:	< 10 mm²/s	DIN 51562	Newton
		at °C	-35	:	< 80 mm²/s	DIN 51562	Newton
	m)	Solubility		:	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				DIN 10701	
	,	density at °C	20	:	1,050 - 1,090 g/ml	DIN 12791	
	q)	Relative vapour density		:	No data available		
	r)	particle characteristics		:	not applicable		
9.2	Ot	her information					
	Inf	ormation with regard to p	hysical haza	rd o	classes		
	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		:	not applicable		
	h)	Self-reactive substances and r	nixtures	:	not applicable		
	í)	Pyrophoric liquids			not applicable		
	, j)	Pyrophoric solids			not applicable		
	,, k)	Self-heating substances and n	nixtures		not applicable		
	I)	Substances or mixtures which		י. ו			
		water, emit flammable gases		:	not applicable		
	m)	Oxidising liquids		:	not applicable		
	n)	Oxidizing solids		:	not applicable		
	o)	Organic peroxides		:	not applicable		
	p)	Corrosive to metals		:	See section 7 of the safety data sheet.		
	q)	Desensitised explosives		:	not applicable		
	ب ہ	har safaty abaractoristics					
		her safety characteristics Mechanical sensitivity			not applicable		
	a) h)	Self-accelerating polymerisation	n fomnoratura	÷	not applicable		
	b)	(SAPT)	n temperature		not applicable		
	c)	(SAPT) formation of explosible dust/ai	r mivturee	:	not applicable		
	c) d)	acid/alkaline reserve	1 1111411165	:	not applicable		
		Evaporation rate		:	No data available		
	e) f)			:			
	f) a\	miscibility Conductivity		:	Water: completely miscible		
	g) b)	Conductivity		•	No data available		
	h)	Corrosiveness		:	Skin corrosion/irritation: none		
					Serious eye damage/irritation: irritant.		
	i)	gas group		:	not applicable		
	j)	Redox potential		:	not applicable		
	k)	radical formation potential		:	not applicable		
	I)	photocatalytic properties		:	not applicable		
	Ad	ditional hazards					
		athing is not possible whilst subm	erged in the foar	ן Te	ke care when spraving people!		
	DI.6	auting is not possible whilst subm	ergeu in the toam	1. 18	ake care when spraying people!		



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

SECTION 11: Toxicological information

a) Acute toxicity	
Acute oral toxicity	
Preparation related information	
_D50 > 2000 mg/kg The acute oral to	xicity is corresponding to GHS-category 5.
Species Rat	
Method Bridging principle "Substantially similar n	nixtures".
nformation 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-cate	egory 5.
(Source: ECHA database «Registered substances»	»(
FLUOROSURFACTANT:	
LD50 (14d) > 5000 mg/kg ==>	
The acute oral toxicity is corresponding to GHS-cate	
(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») FLUOROSURFACTANT: LD50 (14d) > 5000 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») FLUOROSURFACTANT: 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. Species Method Bridging principle "Substantially similar mixtures". Information on ingredients 1.2-ETHANDIOL: non-irritant. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: non-irritant. (Source: Safety Data Sheet) FLUOROSURFACTANT: non-irritant. (Source: Safety Data Sheet) c) Serious eye damage/irritation Preparation related information Causes eye irritation. Species Bridging principle "Substantially similar mixtures". Method Information on ingredients 1,2-ETHANDIOL: non-irritant. (Source: Safety Data Sheet)

2-(2-BUTOXYETHOXY)ETHANOL:





Causes serious eye irritation. (Source: Safety Data Sheet) *FLUOROSURFACTANT:* Causes serious eye irritation. (Source: Safety Data Sheet)

d) Respiratory or skin sensitisation

Preparation related information There are no data available on the mixture itself. Information on ingredients 1,2-ETHANDIOL: not sensitising. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: not sensitising. (Source: Safety Data Sheet) FLUOROSURFACTANT: 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) FLUOROSURFACTANT: 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)

 FLUOROSURFACTANT:

 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)



FLUOROSURFACTANT: 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) FLUOROSURFACTANT:

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) FLUOROSURFACTANT:

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) FLUOROSURFACTANT: 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) FLUOROSURFACTANT:



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

Toxicity				
Acute (short-t	-	-		
	ated information			
Effective dose	LC50		mg/L	
Exposure time		: 96 h		
Species			lus (golden orfe)	
Method		: Bridging prir	nciple "Substantially similar mi	ixtures".
Information on				
1,2-ETHANDIC				
	(96h) > 72860 r			
		ase «Registered :	substances»)	
2-(2-BUTOXYE	,			
	(96hr) 1300mg/	∟ ase «Registered :	substances»)	
FLUOROSURI		ase «negisiereu :	subsidi ices»)	
	(96h) > 35 mg/L			
		- ase «Registered :	substances»)	
(000			substances,	
Acute (short-t	erm) toxicity to	aquatic inverteb	orates	
Preparation rela		-		
Effective dose	EC50		0* mg/L	
Exposure time		: 48 h	J	
Species			gna (Big water flea)	
Method		-	nciple "Substantially similar mi	ixtures".
Information on	ngredients	-33 6	,	
1,2-ETHANDIC				
,	(48h) > 13900	mg/L		
		ase «Registered	substances»)	
2-(2-BUTOXYE		-	,	
	(48hr) > 1101 n			
,		ase «Registered	substances»)	
FLUOROSURI				
	(48h) 144 mg/L			
(Sour	ce: ECHA datab	ase «Registered	substances»)	
A auto /-b++	······		-h	
-		algae and cyano	opacteria	
-	ated information		0*	
Effective dose	EC50		u" mg/L	
Exposure time		:72 h		
Species			us subspicatus	·
Method		: Bridging prir	nciple "Substantially similar mi	ixtures".
Information on				
1,2-ETHANDIC			470 /	
		g/L; NOEC (96h)		
		ase «Registered :	substances»)	
2-(2-BUTOXYE				
	(72h) 1 101 mg	/L ase «Registered :	substances»)	
(Sour FLUOROSURI		ase «negistered	substallues»)	
FLOURUSURI	AUTANI.			



EC50 (72h) 3,26 mg/L (Source: ECHA database «Registered substances»)

Effects in sewage plants

Preparation related information

Analytical method : Respiratory inhibition of municipal activated sludge.

1000*	mg/L	 Concentration 	: 100%	Dilution
16600*	mg/L	 Concentration 	:6%	Dilution
Method		: Bridging principle "Substantia	Illy similar mixtu	ures".

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»)
 FLUOROSURFACTANT:
 EC50 (3h) >1000 mg/L
 (Source: ECHA database «Registered substances»)

: > 1000* : > 60*

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.

* The statement is derived from products of similar structure or composition.

12.2 Persistence and degradability Biodegradation Preparation related information Readily biodegradable (according to OECD criteria). Additional information : The product contains fluorosurfactants that are not completely biodegradable. Degradation rate : > 70%* Test duration : 28 d : BOD (% of COD). Analytical method Method : Bridging principle "Substantially similar mixtures". 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») FLUOROSURFACTANT: 0% (28d) OECD 301 F Not readily biodegradable (according to OECD criteria) (Source: ECHA database «Registered substances») Chemical oyxgen demand (COD) <1500000* mg *O2/L Concentration : 100% DIN EN 38409-H41-1 Method < 90000* mg *O2/L Concentration :6% Method DIN EN 38409-H41-1



	Biochemical oxygen of < 600000* mg *O2/L		ncentration	: 100%	Method	DIN EN 1899-1	Test duration	5 d
	< 36000* mg *O2/L			: 6%	Method	DIN EN 1899-1	Test duration	5 d
	BOD5/COD ratio							
	40%							
	* The statement is deriv	ved from p	products of sim	ilar structure	or composition.			
12.3	Bioaccumulativ	ve pote	ential					
	Preparation related info							
	There are no data avail		e mixture itself	f.				
	Information on ingredie	<u>nts</u>						
	1,2-ETHANDIOL:							
	log Kow -1,36							
			imulation poter					
	(Source: ECH		-	substances	»)			
	2-(2-BUTOXYETHOXY)ETHAN	OL:					
	log Kow < 3							
	No indication of		•					
	(Source: ECH		se «Registered	substances	s»)			
	FLUOROSURFACTAN	IT:						
	BCF < 5,1							
			imulation poter					
	(Source: ECH	A databa	se «Registered	l substances	»)			
12.4	Mobility in soil							
12.4	Mobility in soil	will be mo	bile and may c	contaminate	groundwater.			
12.4	-	will be mo	bile and may c	contaminate	groundwater.			
12.4 12.5	If product enters soil, it Results of PBT	and vl			groundwater.			
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12.7 Other adverse effects

The product contains fluorosurfactants that are not completely biodegradable.

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

 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
 packaging (including separately collected municipal packaging waste)
 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 : No

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments not applicable

not applicable



.1	Safety, health and environmental regulations/legislation specific for the substance or mix					
••	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 deterg					
	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. 5					
	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.					
	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.					
	Regulation (EC) No 2020/784 [PFOA-Regulation]					
	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					
	manufacturer for the time before that.					
	Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation]					
	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					
	manufacturer for the time before that.					
	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					
.2	Chemical Safety Assessment					
	Chemical safety assessments for substances in this mixture were not carried out.					



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 6% application solution of STHAMEX-AFFF 6% F-35 #4642:

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.

H319 Causes serious eye irritation.

H373.8 May cause damage to kidneys through prolonged or repeated exposure if swallowed.

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