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SEC	TION 1: Identification of the	substance/mixture and of the company/undertaking
1.1	Product identifier	
	STHAMEX <sup>®</sup> 3% F-15	#9348
	UFI: 3KVT-H0YY-F00T-EQV7	
1.2	Relevant identified uses of the s	substance or mixture and uses advised against
	Use of the substance/mixture	
	Fire-extinguishing foam	
1.3	Details of the supplier of the safety of the	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	ttingen
	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).

2.1	<b>Classification of the</b>	substance or mix	xture
	Classification according to R	egulation (EC) No 1272/2	2008 [CLP]
	Skin Irrit. 2 H315 - Eye Irrit. 2 H	319	
2.2	Label elements		
	Labelling according to Regul	ation (EC) No. 1272/2008	[CLP]
	Hazard pictograms		> · · ·
	Signal word	WARNING	
	Hazard statements	H315	Causes skin and eye irritation.
		H319	Causes serious eye irritation.
		H412	Harmful to aquatic life with long lasting effects.
	Precautionary statements	P262	Do not get in eyes, on skin, or on clothing.
		P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/
		P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
		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.



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	Classification procedure Bridging principle "Substantially similar mixtures".
2.3	Other hazards
	Endocrine disrupting properties Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	2-(2-BUTOXYETHOXY)ETHANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	1-BUTOXY-2-PROPANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	SODIUM-ALKYLETHERSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	SODIUM-ALKYLETHERSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	SODIUM-ALPHA-OLEFIN SULFONATE:
	This substance does not have endocrine disrupting properties with respect to humans. DODECANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	TETRADECANOL:
	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
	2-(2-BUTOXYETHOXY)ETHANOL: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	1-BUTOXY-2-PROPANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	SODIUM-ALKYLETHERSULFATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	SODIUM-ALKYLETHERSULFATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	SODIUM-ALPHA-OLEFIN SULFONATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	DODECANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	TETRADECANOL:
	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!
	Concentrated surfactant solutions always pose a danger to aquatic life because they greatly reduce the surface tension of water thus
	disrupting all life processes associated with it. In sewage treatment plants, for example, the necessary aeration of the sewage stages can be
	hindered by the strong foam formation.

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





Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)/(EU) 2020/878 STHAMEX<sup>®</sup> 3% F-15 #9348 V-11 Print date: 28.10.21 Page 3 of 24

	Substances
	not applicable
3.2	Mixtures
	2-(2-BUTOXYETHOXY)ETHANOL
	CAS No.: 112-34-5
	EC No.: 203-961-6
	REACH No.: 01-2119475104-44-XXXX
	Concentration: 5 - 10%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2; H319
	1-BUTOXY-2-PROPANOL
	CAS No.: 5131-66-8
	EC No.: 225-878-4
	REACH No.: 01-2119475527-28-XXXX
	Concentration: 5 - 10%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2-Skin Irrit. 2; H315-H319
	SODIUM-ALKYLETHERSULFATE
	CAS No.: 157707-85-2
	EC No.: 605-106-6
	REACH No.: ausgenommen
	Concentration: 1 - 5%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1; H315-H318
	NATRIUM-ALKYLETHERSULFAT
	CAS No.: 68891-38-3
	EC No.: 500-234-8
	REACH No.: 01-2119488639-16-XXXX
	Concentration: 1 - 5%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1-Aquatic Chronic 3; H315-H318-H412
	SODIUM-ALPHA-OLEFIN SULFONATE
	CAS No.: 68439-57-6
	EC No.: 931-534-0
	REACH No.: 01-2119513401-57-XXXX
	Concentration: 5 - 10%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Eye Dam. 1-Skin Irrit. 2; H315-H318
	DODECANOL
	CAS No.: 112-53-8
	EC No.: 203-982-0
	REACH No.: 01-2119485976-15-XXXX
	Concentration: 0,1 - 1%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS09; Aquatic Acute 1-Aquatic Chronic 2; H400-H411
	TETRADECANOL
	CAS No.: 112-72-1
	EC No.: 204-000-3
	REACH No.: 01-2119485910-33-XXXX
	Concentration: 0,1 - 1%
	Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07-GHS09; Eye Irrit. 2-Aquatic Chronic 1; H319-H410
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES
	Concentration: 5 - 10%



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## WATER CAS No.: 7732-18-5 Concentration: 48 - 77,8% 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

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



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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
	Shafts and sewers must be protected from entry of the product.
	Advices on general occupational hygiene
	When using do not eat, drink, smoke, sniff.
7.2	Conditions for safe storage, including any incompatibilities
	Technical measures and storage conditions
	Do not store at temperatures above: +50°C





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Requirements for storage rooms and vessels Suitable container/equipment material Refined steel Polyethylene (PE) Unsuitable container/equipment material Aluminium Light metal Copper Zinc Alloy, containing copper Alloy, contains light metal Iron. Steel

#### Hints on joint storage

Storage class

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

#### 7.3 Specific end use(s)

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

#### Recommendation

Observe technical data sheet.

# SECTION 8: Exposure controls/personal protection

8.1	Control parameters
	Substance name: 2-(2-BUTOXYETHOXY)ETHANOL
	CAS No.: 112-34-5
	REACH No.: 01-2119475104-44-XXXX
	United Kingdom
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EN)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EN)
	European Union
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EC)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EC)
	Germany
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): AGW (DE)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): Peak (DE) Ireland
	Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (IE)
	short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (IE)
8.2	Exposure controls
	Advices on general occupational hygiene
	Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.
	Avoid contact with skin, eyes and clothes.
	Remove contaminated, saturated clothing.
	Wash contaminated clothing prior to re-use.
	Wash hands before breaks and after work.
	Apply skin care products after work.





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# Eye/face protection

Suitable eye protection Eye glasses with side protection goggles Face protection shield Recommended eye protection articles DIN 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**

#### 9.1 Information on basic physical and chemical properties

a)	Physical state			:	Liquid		
b)	Colour			:	colourless / yellow		
c)	Odour			:	Glycol, Ether, Surfactant		
d)	Melting point/freez	zing point		:	-15°C	EN 1568:201	8
e)	Melting point/freez	zing point		:	> 100°C	DIN 51751	
f)	Flammability			:	not applicable		
g)	Lower and upper e	explosion limit/flar	nmability				
	limit			:	No data available		
h)	Flash point			:	No flash point up to 100 °C.		
i)	Ignition temperatu	ire in °C		:	not applicable		
j)	Decomposition ter	mperature		:	No data available		
k)	рН	at °C	20	:	6,5 - 8,5	DIN 19268	
I)	Viscosity	at °C	20	:	< 20 mm²/s	DIN 51562	Newton
		at °C	-15	:	< 100 mm²/s	DIN 51562	Newton
m)	) Solubility			:	Water: completely miscible	OECD 105	



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	value)	:	not applicable	
0)	Vapour pressure	:	No data available	
p)	Density and/or relative			DIN 40704
,	density at °C 20	:	1,010 - 1,050 g/ml	DIN 12791
d)	Relative vapour density	:	No data available	
r)	particle characteristics	•	not applicable	
	her information			
	ormation with regard to physical haza	rd o		
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 mixtures	:	not applicable	
i)	Pyrophoric liquids	:	not applicable	
j)	Pyrophoric solids	:	not applicable	
k)	Self-heating substances and mixtures	. :	not applicable	
I)	Substances or mixtures which, in contact with	h	nat analia abla	
	water, emit flammable gases	:	not applicable	
	Oxidising liquids	÷	not applicable	
n)	Oxidizing solids	÷	not applicable	
0) m)	Organic peroxides Corrosive to metals	÷	not applicable	4
p) a)		÷	See section 7 of the safety data she	eet.
q)	Desensitised explosives	i	not applicable	
	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 not applicable	
c) d)	acid/alkaline reserve	:	not applicable	
ć	Evaporation rate	:	No data available	
e) f)	miscibility	:	Water: completely miscible	
יי g)	Conductivity	:	~ 7500 µS/cm	
9) h)	Corrosiveness	:	Skin corrosion/irritation: irritant	
,		•	Serious eye damage/irritation: irritat	nt
i)	gas group	:	not applicable	
j)	Redox potential	:	not applicable	
k)	radical formation potential	:	not applicable	
I)	photocatalytic properties	:	not applicable	
•				

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Materials to avoid

Alkali (lye), concentrated





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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

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Do not store at temperatures above: +50°C

# **10.5 Incompatible materials**

See section 7. No additional measures necessary.

# **10.6 Hazardous decomposition products**

# **SECTION 11: Toxicological information**

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

<ul> <li>a) Acute toxicity</li> </ul>	/	
Acute oral toxicity	y	
Preparation related	l information	
LD50	> 2000 mg/kg	The acute oral toxicity is corresponding to GHS-category 5.
Species	Rat	
Method	Bridging principle "S	ubstantially similar mixtures".
Information on ingr	<u>edients</u>	
2-(2-BUTOXYETH	OXY)ETHANOL:	
LD50 (14	d) 5530 mg/kg ==>	
The acute	e oral toxicity is corresp	ponding to GHS-category 5.
(Source: I	ECHA database «Reg	istered substances»)
1-BUTOXY-2-PRC		
•	d) 3300 mg/kg ==>	
		conding to GHS-category 5.
	ECHA database «Reg	istered substances»)
SODIUM-ALKYLE		
•	d) > 2000 mg/kg ==>	
	• •	ponding to GHS-category 5.
(	Safety Data Sheet)	
SODIUM-ALKYLE		
(	d) > 3200 mg/kg ==>	
		ponding to GHS-category 5.
``	ECHA database «Reg OLEFIN SULFONATE	,
	d) > 2300 mg/kg ==>	
•	, .	bonding to GHS-category 5.
	ECHA database «Reg	
DODECANOL:		
	d) > 2000 mg/kg ==>	
(	,	





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The acute oral toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
TETRADECANOL:	
LD50 (14d) > 2000 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.	
2-(2-BUTOXYETHOXY)ETHANOL:	
LD50 (1d) 2764 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
1-BUTOXY-2-PROPANOL:	
LC50 (14d) > 2000 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
SODIUM-ALKYLETHERSULFATE:	
LD50 (14d) > 2000 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: Safety Data Sheet)	
SODIUM-ALKYLETHERSULFATE:	
LD50 (14d) > 2000 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
SODIUM-ALPHA-OLEFIN SULFONATE:	
LD50 (14d) > 2200 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
DODECANOL:	
LD50 (14d) 8000 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
TETRADECANOL:	
LD50 (14d) 8000 mg/kg ==>	
The acute dermal toxicity is corresponding to GHS-category 5.	
(Source: ECHA database «Registered substances»)	
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	
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»)	



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	OPANOL:
NOEC (4	4h) 651 ppm; LC50 (4h) > 3,5 mg/L ==>
The acu	te inhalation toxicity related to vapours is corresponding to GHS-category 5.
(Source:	Safety Data Sheet)
SODIUM-ALKYLI	ETHERSULFATE:
No data	available
No inforr	nation available. No classification in the above-mentioned hazard class
(Source:	Safety Data Sheet)
SODIUM-ALKYLI	ETHERSULFATE:
	available
	nation available. No classification in the above-mentioned hazard class
,	Safety Data Sheet)
	-OLEFIN SULFONATE:
	n) >52 mg/L ==>
	te inhalation toxicity related to vapours is corresponding to GHS-category 5.
	ECHA database «Registered substances»)
DODECANOL:	\. <b>7</b> 4 // .
,	n) > 71 mg/L ==>
	te inhalation toxicity related to dust/mist is corresponding to GHS-category 5.
(Source: TETRADECANO	ECHA database «Registered substances»)
	n) > 1,5 mg/L ==>
	te inhalation toxicity related to vapours is corresponding to GHS-category 5. ECHA database «Registered substances»)
	IOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	stances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
	ification in the above-mentioned hazard class
	Safety Data Sheet)
b) Skin corrosi	on/irritation
b) Skin corrosi Preparation relate	d information
Preparation relate Causes skin irritat	d information
Preparation relate Causes skin irritat Species	<u>d information</u> ion.
Preparation relate Causes skin irritat Species Method B	<u>d information</u> ion. idging principle "Substantially similar mixtures".
Preparation relate Causes skin irritat Species Method Bi Information on ing	<u>d information</u> ion. <sup>.</sup> idging principle "Substantially similar mixtures". <u>iredients</u>
Preparation relate Causes skin irritat Species Method Ba Information on inco 2-(2-BUTOXYET	<u>d information</u> ridging principle "Substantially similar mixtures". <u>iredients</u> HOXY)ETHANOL:
Preparation relate Causes skin irritat Species — Method B Information on ing 2-(2-BUTOXYET) non-irrita	<u>d information</u> ridging principle "Substantially similar mixtures". <u>iredients</u> HOXY)ETHANOL: int.
Preparation relate Causes skin irrital Species — Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source:	<u>d information</u> ion. ridging principle "Substantially similar mixtures". <u>rredients</u> <i>HOXY)ETHANOL:</i> int. Safety Data Sheet)
Preparation relate Causes skin irrital Species Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR	<u>d information</u> ion. ridging principle "Substantially similar mixtures". <u>rredients</u> <i>HOXY)ETHANOL:</i> int. Safety Data Sheet) <i>OPANOL:</i>
Preparation relate Causes skin irrital Species Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes	<u>d information</u>
Preparation relate Causes skin irrital Species Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes (Source:	<u>d information</u> ion. ridging principle "Substantially similar mixtures". <u>predients</u> <i>HOXY)ETHANOL:</i> Int. Safety Data Sheet) <i>OPANOL:</i> skin irritation. Safety Data Sheet)
Preparation relate Causes skin irrital Species — Method Bi Information on ing 2-(2-BUTOXYETT non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYL	<u>d information</u> ion. idging principle "Substantially similar mixtures". <u>irredients</u> <i>HOXY)ETHANOL:</i> Int. Safety Data Sheet) <i>OPANOL:</i> skin irritation. Safety Data Sheet) ETHERSULFATE:
Preparation relate Causes skin irrital Species — Method Bi Information on ing 2-(2-BUTOXYETT non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes	<u>d information</u> ion. idging principle "Substantially similar mixtures". <u>irredients</u> HOXY)ETHANOL: Int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation.
Preparation relate Causes skin irrital Species — Method Bi Information on ing 2-(2-BUTOXYETTI non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source:	<u>d information</u> ion. idging principle "Substantially similar mixtures". <u>irredients</u> <i>HOXY)ETHANOL:</i> Int. Safety Data Sheet) <i>OPANOL:</i> skin irritation. Safety Data Sheet) ETHERSULFATE:
Preparation relate Causes skin irrital Species Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes SODIUM-ALKYLI	<u>d information</u> ion. · idging principle "Substantially similar mixtures". <u>irredients</u> HOXY)ETHANOL: Int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet)
Preparation relate Causes skin irrital Species Method Bi Information on inc 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes SODIUM-ALKYLI Causes	d information ion. idging principle "Substantially similar mixtures". <u>irredients</u> HOXY)ETHANOL: int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation.
Preparation relate Causes skin irrital Species Method Bi Information on inc 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI	d information ion. idging principle "Substantially similar mixtures". <u>iredients</u> HOXY)ETHANOL: int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: Shin irritation.
Preparation relate Causes skin irrital Species Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALFHA	d information ion. idging principle "Substantially similar mixtures". <u>redients</u> HOXY)ETHANOL: int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet)
Preparation relate Causes skin irrital Species Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALPHA Causes	d information ion. idging principle "Substantially similar mixtures". <u>irredients</u> HOXY)ETHANOL: int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) -OLEFIN SULFONATE:
Preparation relate Causes skin irrital Species Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALPHA Causes	d information ion. idging principle "Substantially similar mixtures". <u>irredients</u> HOXY)ETHANOL: int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) -OLEFIN SULFONATE: skin irritation.
Preparation relate Causes skin irrital Species Method Bi Information on ing 2-(2-BUTOXYET) non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALPHA Causes (Source:	d information ion. idging principle "Substantially similar mixtures". <u>predients</u> HOXYJETHANOL: int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) OLEFIN SULFONATE: skin irritation. Safety Data Sheet) OLEFIN SULFONATE: skin irritation. Safety Data Sheet)
Preparation relate Causes skin irrital Species — Method Bi Information on ing 2-(2-BUTOXYETT non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: DODECANOL: non-irrita	d information ion. idging principle "Substantially similar mixtures". <u>predients</u> HOXYJETHANOL: int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) OLEFIN SULFONATE: skin irritation. Safety Data Sheet) OLEFIN SULFONATE: skin irritation. Safety Data Sheet)
Preparation relate Causes skin irrital Species — Method Bi Information on ing 2-(2-BUTOXYETT non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: DODECANOL: non-irrita	d information ion. idging principle "Substantially similar mixtures". <u>tredients</u> HOXYJETHANOL: int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) -OLEFIN SULFONATE: skin irritation. Safety Data Sheet) -OLEFIN SULFONATE: skin irritation. Safety Data Sheet) int. Safety Data Sheet)
Preparation relate Causes skin irrital Species — Method Bi Information on ing 2-(2-BUTOXYETT non-irrita (Source: 1-BUTOXY-2-PR Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALKYLI Causes (Source: SODIUM-ALFYLI Causes (Source: DODECANOL: non-irrita (Source:	d information ion. idging principle "Substantially similar mixtures". <u>rredients</u> HOXY)ETHANOL: Int. Safety Data Sheet) OPANOL: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) ETHERSULFATE: skin irritation. Safety Data Sheet) -OLEFIN SULFONATE: skin irritation. Safety Data Sheet) -OLEFIN SULFONATE: skin irritation. Safety Data Sheet) Int. Safety Data Sheet) L:





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-	NTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: n-irritant.
(5	ource: Safety Data Sheet)
c) Seriou	s eye damage/irritation
-	related information
Causes eye	
Species	
Method	 Dridaina principlo "Cultotentially cimilar mixturae"
	Bridging principle "Substantially similar mixtures".
	on ingredients
	KYETHOXY)ETHANOL:
	auses serious eye irritation.
	ource: Safety Data Sheet)
	2-PROPANOL:
	auses serious eye irritation.
	ource: Safety Data Sheet)
	LKYLETHERSULFATE:
	auses serious eye damage.
•	ource: Safety Data Sheet)
	LKYLETHERSULFATE:
	auses serious eye damage.
· ·	ource: Safety Data Sheet)
	LPHA-OLEFIN SULFONATE:
	auses serious eye damage.
	ource: Safety Data Sheet)
DODECAN	
	n-irritant.
	ource: Safety Data Sheet)
TETRADE	
	auses serious eye irritation.
	ource: Safety Data Sheet)
	NTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	n-irritant.
(S	ource: Safety Data Sheet)
d) Deeniu	atory or skin sensitisation
	related information
	o data available on the mixture itself.
	on ingredients
•	KYETHOXY)ETHANOL:
	t sensitising.
•	purce: Safety Data Sheet)
	-2-PROPANOL:
	t sensitising.
	purce: Safety Data Sheet)
	LKYLETHERSULFATE:
	t sensitising.
	purce: Safety Data Sheet)
	LKYLETHERSULFATE:
	t sensitising.
· ·	purce: Safety Data Sheet)
	LPHA-OLEFIN SULFONATE:
	t sensitising.
	ource: Safety Data Sheet)
DODECAN	
no	t sensitising.





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(Source: Safety Data Sheet) TETRADECANOL: 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 2-(2-BUTOXYETHOXY)ETHANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) DODECANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) TETRADECANOL: No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet) 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 2-(2-BUTOXYETHOXY)ETHANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No indication of human carcinogenicity. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No indication of human carcinogenicity. (Source: Safety Data Sheet)





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DODECAI	NOL:
Ν	lo indication of human carcinogenicity.
	Source: Safety Data Sheet)
TETRADE	
Ν	lo indication of human carcinogenicity.
	Source: Safety Data Sheet)
	ENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	lo indication of human carcinogenicity.
	Source: Safety Data Sheet)
•	oductive toxicity
Preparatio	n related information
There are	no data available on the mixture itself.
Information	n on ingredients
2-(2-BUTC	DXYETHOXY)ETHANOL:
. N	lo indications of human reproductive toxicity exist.
(5	Source: Safety Data Sheet)
、	Y-2-PROPANOL:
Ν	lo indications of human reproductive toxicity exist.
(9	Source: Safety Data Sheet)
•	ALKYLETHERSULFATE:
Ν	lo indications of human reproductive toxicity exist.
(5	Source: Safety Data Sheet)
SODIUM-	ALKYLETHERSULFATE:
Ν	lo indications of human reproductive toxicity exist.
(5	Source: Safety Data Sheet)
SODIUM-	ALPHA-OLEFIN SULFONATE:
Ν	lo indications of human reproductive toxicity exist.
(9	Source: Safety Data Sheet)
DODECAI	VOL:
Ν	lo indications of human reproductive toxicity exist.
	Source: Safety Data Sheet)
TETRADE	ECANOL:
Ν	lo indications of human reproductive toxicity exist.
(5	Source: Safety Data Sheet)
INGREDIE	ENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	lo indications of human reproductive toxicity exist.
(9	Source: Safety Data Sheet)
	-single exposure
	n related information
	no data available on the mixture itself.
	n on ingredients
•	DXYETHOXY)ETHANOL:
	lo known symptoms to date.
	Source: Safety Data Sheet)
	Y-2-PROPANOL:
	lo known symptoms to date.
	Source: Safety Data Sheet)
	ALKYLETHERSULFATE:
	lo known symptoms to date.
(9	Source: Safety Data Sheet)
SODIUM-	ALKYLETHERSULFATE:
SODIUM-/	lo known symptoms to date.
SODIUM-/ N	



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# No known symptoms to date. (Source: Safety Data Sheet) DODECANOL: No known symptoms to date. (Source: Safety Data Sheet) TETRADECANOL: No known symptoms to date. (Source: Safety Data Sheet) 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 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE: No known symptoms to date. (Source: Safety Data Sheet) DODECANOL: No known symptoms to date. (Source: Safety Data Sheet) TETRADECANOL: No known symptoms to date. (Source: Safety Data Sheet) INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No known symptoms to date. (Source: Safety Data Sheet) i) Aspiration hazard

Preparation related information There are no data available on the mixture itself. Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: No known symptoms to date. (Source: Safety Data Sheet) 1-BUTOXY-2-PROPANOL: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: No known symptoms to date.





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1	
	(Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	DODECANOL:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	TETRADECANOL:
	No known symptoms to date.
	(Source: Safety Data Sheet)
	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
	2-(2-BUTOXYETHOXY)ETHANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	1-BUTOXY-2-PROPANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	SODIUM-ALKYLETHERSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	SODIUM-ALKYLETHERSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	SODIUM-ALPHA-OLEFIN SULFONATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	DODECANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	TETRADECANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	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!
L	

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Acute (short-term) fish	1 toxicity		
Preparation related info	rmation		
Effective dose	LC50	: ~ 15	mg/L
Exposure time		: 96 h	
Species		: Leuciscus idus	(golden orfe)





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Method : On basis of test data .: OECD 203 Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: LC50 (96hr) 1300mg/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: LC50 (96h) 560 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: LC50 (96h) 1 - 10 mg/L (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: LC50 (96h) 7,1 mg/L (Source: ECHA database «Registered substances») SODIUM-ALPHA-OLEFIN SULFONATE: LC50 (96h) 4,2 mg/L (Source: ECHA database «Registered substances») DODECANOL: LC50 (96h) 1,01 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: LC50 (96h) > 1,0 mg/L (Source: ECHA database «Registered substances») INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No classification in the above-mentioned hazard class (Source: Safety Data Sheet) Acute (short-term) toxicity to crustacea Preparation related information Effective dose EC50 :~45 mg/L Exposure time :48 h Species : Daphnia magna (Big water flea) : On basis of test data.: OECD 202 Method Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: EC50 (48hr) > 1101 mg/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (48h) > 1000 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: EC50 (48h) 10 - 100 mg/L (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: EC50 (48h) 7,4 mg/L (Source: ECHA database «Registered substances») SODIUM-ALPHA-OLEFIN SULFONATE: LC50 (48h) 4,53 mg/L (Source: ECHA database «Registered substances») DODECANOL: NOEC (48h) 0,316 mg/L; EC50 (48h) 0,765 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: EC50 (48h) 3,2 mg/L (Source: ECHA database «Registered substances») INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:





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No classification in the above-mentioned hazard class (Source: Safety Data Sheet) Acute (short-term) toxicity to algae and cyanobacteria Preparation related information Effective dose EC50 :~60 mg/L Exposure time :72 h Species : Scenedesmus subspicatus Method : On basis of test data .: OECD 201 Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: EC50 (72h) 1 101 mg/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (96h) > 1000 ma/L; NOEC (96h) 569 ma/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: EC50 (72h) > 100 mg/L (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: EC50 (72h) 27,7 mg/L; NOEC (72h) 0,95 mg/L (Source: ECHA database «Registered substances») SODIUM-ALPHA-OLEFIN SULFONATE: EC50 (48h) 45 mg/L (Source: ECHA database «Registered substances») DODECANOL: EC50 (72h) 0,66 mg/L (Source: ECHA database «Registered substances») TETRADECANOL: EL50 (96h) > 10 mg/L (Source: ECHA database «Registered substances») INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: No classification in the above-mentioned hazard class (Source: Safety Data Sheet) Effects in sewage plants Preparation related information Analytical method : Respiratory inhibition of municipal activated sludge. Dilution Concentration : 100% 330 mg/L 11000 mg/L Concentration : 3% Dilution : On basis of test data.: DIN 38412/part 3 (TTC) Method Information on ingredients 2-(2-BUTOXYETHOXY)ETHANOL: NOEC (0,5h) 1995 mg/L (Source: ECHA database «Registered substances») 1-BUTOXY-2-PROPANOL: EC50 (3h) > 1000 mg/L (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: NOEC (16h) > 10000 mg/L (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: EC50 (16h) > 10000 mg/L; NOEC (16h) > 10000 mg/L (Source: ECHA database «Registered substances») SODIUM-ALPHA-OLEFIN SULFONATE: EC50 (3h) 230 mg/L; NOEC (3h) 40 mg/L

: > 3030

: > 91





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

# STHAMEX<sup>®</sup> 3% F-15 #9348

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		A database «Registered substances»)
	DODECANOL:	
	NOEC (0,5h) :	-
	(Source: ECH. TETRADECANOL:	A database «Registered substances»)
	NOEC (14d) 1	10000 ma/l
		A database «Registered substances»)
		CLASSIFIED AS HAZARDOUS SUBSTANCES:
		on in the above-mentioned hazard class
	(Source: Safet	ty Data Sheet)
	Technically correct relea	ases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated
	sludge.	
	-	o foaming in sewage plants.
	Remark	
		ns concerning effluent treatment.
	Special pre-treatments	-
	opecial pre-treatments	are necessary.
12.2	Persistence and	d degradability
	Biodegradation	
	Preparation related info	
		(according to OECD criteria).
	Degradation rate	: ~ 88,7%
	Test duration	: 28 d
	Analytical method	
	Method	: On basis of test data.: OECD 301F
	Туре	: Aerobic biological treatment
	Information on ingredier	
	2-(2-BUTOXYETHOXY	
	92% (28d) OE Roadily bioday	gradable (according to OECD criteria).
		A database «Registered substances»)
	1-BUTOXY-2-PROPAN	
	90% (10d) OE	
	Readily biodeg	gradable (according to OECD criteria).
	(Source: ECH	A database «Registered substances»)
	SODIUM-ALKYLETHE	
	>70% (28d) O	
		gradable (according to OECD criteria).
	SODIUM-ALKYLETHE	ty Data Sheet)
	> 60% (14d) C	
		gradable (according to OECD criteria).
		A database «Registered substances»)
	SODIUM-ALPHA-OLEI	
	80% (28d) OE	
		gradable (according to OECD criteria).
	`	A database «Registered substances»)
	DODECANOL:	
	79% (28d) OE Deadily biodes	
		gradable (according to OECD criteria). A database «Registered substances»)
	TETRADECANOL:	n antanano mitegiateren andataritean)
	82,2% (28d) C	DECD 301 B
		gradable (according to OECD criteria).





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	(Source: ECHA database «Registered substances») INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: > 70% (28d) OECD 301 Readily biodegradable (according to OECD criteria). (Source: Safety Data Sheet)
	Chemical oyxgen demand (COD)
	~708000 mg*O2/L ► Concentration : 100% Method DIN EN 38409-H41-1
	$\sim 21240 \text{ mg}^{\circ} \text{O2/L}$ $\blacktriangleright$ Concentration : 3% Method DIN EN 38409-H41-1
	Biochemical oxygen demand
	~ 340000 mg*O2/L ► Concentration : 100% Method DIN EN 1899-1 Test duration 5 d
	$\sim$ 10200 mg*O2/L $\blacktriangleright$ Concentration : 3% Method DIN EN 1899-1 Test duration 5 d
	BOD5/COD ratio
	48%
12.3	Bioaccumulative potential
12.5	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	2-(2-BUTOXYETHOXY)ETHANOL:
	log Kow < 3
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	1-BUTOXY-2-PROPANOL:
	BCF 3,16
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	SODIUM-ALKYLETHERSULFATE:
	log Kow < 3
	No indication of bioaccumulation potential.
	(Source: Safety Data Sheet)
	SODIUM-ALKYLETHERSULFATE:
	log Kow < 3
	No indication of bioaccumulation potential. (Source: ECHA database «Registered substances»)
	(SOUICE: ECHA database «Registered substances») SODIUM-ALPHA-OLEFIN SULFONATE:
	BCF 70,8
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	DODECANOL:
	BCF 750
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	TETRADECANOL:
	BCF 1000
	No indication of bioaccumulation potential.
	(Source: ECHA database «Registered substances»)
	INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	No classification in the above-mentioned hazard class No information available. No classification in the above-mentioned hazard class
	(Source: Safety Data Sheet)
	loouide. Dalely Dala Directy
12.4	Mobility in soil
1217	mowing in som





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If product enters soil, it will be mobile and may contaminate groundwater.

12.5	Results of PBT and vPvB assessment
	Preparation related information
1	There are no data available on the mixture itself.
1	Information on ingredients
l	2-(2-BUTOXYETHOXY)ETHANOL:
l	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
l	(Source: Safety Data Sheet)
l	1-BUTOXY-2-PROPANOL:
l	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	SODIUM-ALKYLETHERSULFATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
l	(Source: Safety Data Sheet) SODIUM-ALPHA-OLEFIN SULFONATE:
l	SODIUM-ALPHA-OLEFIN SOLFOINATE: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	(Source: Salety Data Sheet) DODECANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
l	(Source: Safety Data Sheet)
l	TETRADECANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
l	INGREDIENTS NOT CLASSIFIED ÁS 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
12.0	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	2-(2-BUTOXYETHOXY)ETHANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	1-BUTOXY-2-PROPANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	SODIUM-ALKYLETHERSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	SODIUM-ALKYLETHERSULFATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	SODIUM-ALPHA-OLEFIN SULFONATE:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)
	DODECANOL: This substance does not have endocrine disrupting properties with respect to humans
	This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)
	(Source: Sarety Data Sheet) TETRADECANOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	(Source: Safety Data Sheet)





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INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES: This substance does not have endocrine disrupting properties with respect to humans. (Source: Safety Data Sheet)

# 12.7 Other adverse effects

-

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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

#### Waste codes/waste designations according to EWC/AVV

Waste code product

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

#### Waste code packaging

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

#### Remark

Delivery to an approved waste disposal company.

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

# **SECTION 14: Transport information**

#### 14.1 UN number or ID number

none

#### 14.2 UN proper shipping name

not applicable

#### 14.3 Transport hazard class(es)

Land transport (ADR/RID) No dangerous good in sense of these transport regulations. Inland waterway craft (ADN) No dangerous good in sense of these transport regulations. Sea transport (IMDG) No dangerous good in sense of these transport regulations. Air transport (ICAO-TI / IATA-DGR) No dangerous good in sense of these transport regulations.

# 14.4 Packing group

not applicable

#### 14.5 Environmental hazards

none

Marine pollutant : No





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# 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		
	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). Volatile organic compounds (VOC) content in percent by weight:: max. 20		
	Volatile organic compounds (VOC) content in percent by weight max. 20		
	Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases		
	not applicable		
	Regulation (EC) No 2019/1021 [POP/PFOS-Regulation]		
	The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and		
	therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking		
	water used for production).		
	Regulation (EC) No 2020/784 [PFOA-Regulation]		
	The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and		
	therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the drinking water used for production).		
	Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation]		
	The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and		
	therefore does not contain any amount of organofluorine substances beyond the regional ubiguitous background pollution (e.g. in the drinking		

water used for production).

# National regulations

**Störfallverordnung** This product is not classified according to StörfallVO.

#### Water hazard class

slightly hazardous to water (WGK 1)





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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 STHAMEX 3% F-15 #9348:

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)

- H315 Causes skin and eye irritation. H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects. H412
- Harmful to aquatic life with long lasting effects.