



STHAMEX[®] 6% F-15 #9601

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SEC	TION 1: Identification of the	substance/mixture and of the company/undertaking			
1.1	Product identifier				
	STHAMEX [®] 6% F-15	#9601			
	UFI: D9KU-K0MD-Y001-S39J				
1.2	Relevant identified uses of the	substance or mixture and uses advised against			
	Use of the substance/mixture				
	Fire-extinguishing foam				
1.3	Details of the supplier of the safety data sheet				
	Manufacturer	Fabrik chemischer Präparate von Dr. R. Sthamer GmbH & Co. KG			
	Street	Liebigstraße 5			
	Postal code/City	D-22113 Hamburg			
	Country	Deutschland			
	Telephone	+49 (0)40/736168-0			
	Telefax	+49 (0)40/736168-60			
	E-mail (competent person)	labor@sthamer.com			
	Website	http://sthamer.com			
	Department responsible for information	Dr. Prall, +49 (0)40/736168-31			
	Emergency telephone number	+49 (0)40/736168-0			
1.4	Emergency telephone number				
	GIZ-Nord Poisons Centre of the University of 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).

2.1	Classification of the		
	Classification according to R Eye Irrit. 2 H319	egulation (EC) No 12/2/2	2008 [CLP]
2.2	Label elements		
	Labelling according to Regul	ation (EC) No. 1272/2008	[CLP]
	Hazard pictograms		
	Signal word	WARNING	
	Hazard statements	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
	1,2-ETHANDIOL:
	This substance does not have endocrine disrupting properties with respect to humans.
	2-(2-BUTOXYETHOXY)ETHANOL:
	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.
	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
	1,2-ETHANDIOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	2-(2-BUTOXYETHOXY)ETHANOL:
	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. 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

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





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Concentration: 5 - 10%

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: 15 - 20% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Eye Irrit. 2; H319

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

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: 15 - 20% The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

WATER

CAS No.: 7732-18-5 Concentration: 43 - 63,8% 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.





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In case of skin contact Wash immediately with:: Water

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness Nausea Gastrointestinal complaints

4.3 Indication of any immediate medical attention and special treatment needed

If unconscious but breathing normally, place in recovery position and seek medical advice. IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

The product itself does not burn.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Provide adequate ventilation. 6.2 Environmental precautions Cover drains. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. 6.3 Methods and material for containment and cleaning up Take up mechanically, placing in appropriate containers for disposal.

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





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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

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.
Conditions for safe storage, including any incompatibilities
 Technical measures and storage conditions
Do not store at temperatures above: +50°C
Requirements for storage rooms and vessels
Suitable container/equipment material
Refined steel
Polyethylene (PE)
Unsuitable container/equipment material
Aluminium
Light metal
Copper
Zinc
Alloy, containing copper Alloy, contains light metal
Iron.
Steel
Hints on joint storage
Storage class
12: non-combustible liquids that cannot be assigned to any of the above storage classes



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Do not use for cleaning purposes.

Recommendation

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

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
	CAS NO.: 112-34-3 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)
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





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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

)	Physical state			:	Liquid		
o)	Colour			:	colourless / yellow		
c)	Odour			:	Glycol, Ether, Surfactant		
d)	Melting point/freezing po	oint		:	-15°C	EN 1568:2018	}
e)	Melting point/freezing po	oint		:	> 100°C	DIN 51751	
f)	Flammability			:	not applicable		
	Lower and upper explos	ion limit/fla	mmability				
	limit			:	No data available		
h)	Flash point			:	No flash point up to 100 °C.		
i)	Ignition temperature in °	C		:	not applicable		
j)	Decomposition tempera	ture		:	No data available		
k)	рН	at °C	20	:	6,5 - 8,5	DIN 19268	
I)	Viscosity	at °C	20	:	< 10 mm²/s	DIN 51562	Newton
		at °C	-15	:	< 50 mm²/s	DIN 51562	Newton
m)	Solubility			:	Water: completely miscible	OECD 105	
n)	Partition coefficient n-oc	tanol/wate	· (log				
	value)			:	not applicable		
o)	Vapour pressure			:	No data available		
p)	Density and/or relative						
	density	at °C	20	:	1,040 - 1,080 g/ml	DIN 12791	
q)	Relative vapour density			:	No data available		
r)	particle characteristics			:	not applicable		

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Inf	ormation with regard to physical hazar	d	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 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	1	
	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
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	:	~ 2400 µS/cm
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
l)	photocatalytic properties	:	not applicable

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

SECTION 10: Stability and reactivity

10.1 Reactivity

Materials to avoid Alkali (lye), concentrated Alkali metals Acid, concentrated Oxidising agent, strong Reducing agent, strong Acid halides





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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			

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

IESI Was call	ied out with a similar p	reparation/mixture.
a) Acute to	kicity	
Acute oral to	kicity	
Preparation re	lated information	
LD50	> 2000 mg/kg	The acute oral toxicity is corresponding to GHS-category 5.
Species	Rat	
Vethod	Bridging principle '	Substantially similar mixtures".
Information on		
1,2-ETHANDI		
LD50	(7d) 2310 mg/kg ==>	
Harm	ful if swallowed.	
	rce: ECHA database «Re	egistered substances»)
•	ETHOXY)ETHANOL:	
	(14d) 5530 mg/kg ==>	
		sponding to GHS-category 5.
	rce: ECHA database «Re	egistered substances»)
	YLETHERSULFATE:	
	(14d) > 3200 mg/kg ==	
		sponding to GHS-category 5.
•	rce: ECHA database «Re	egistered substances»)
		<
	(14d) > 2000 mg/kg ==	> sponding to GHS-category 5.
	rce: ECHA database «Re	
TETRADECA		
	(14d) > 2000 mg/kg ==	>
	. ,	- sponding to GHS-category 5.
	rce: ECHA database «Re	
``		HAZARDOUS SUBSTANCES:
-		ified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
		mentioned hazard class
	rce: Safety Data Sheet)	





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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»)	
SODIUM-ALKYLETHERSULFATE:	
LD50 (14d) > 2000 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»)	
(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	
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.	
דוים מטמנים ווווומומנוטרו נטאוטוגץ דפומנכע נט אמףטעוס וס טטורפסףטרועוווץ נט שרוס-טמנפעטרץ ט.	
(Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE:	
(Source: ECHA database «Registered substances»)	
(Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: No data available	
(Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: No data available No information available. No classification in the above-mentioned hazard class	
(Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: No data available	
(Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) DODECANOL:	
(Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) DODECANOL: LC50 (1h) > 71 mg/L ==>	
(Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) DODECANOL: LC50 (1h) > 71 mg/L ==> The acute inhalation toxicity related to dust/mist is corresponding to GHS-category 5.	
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(Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: No data available No information available. No classification in the above-mentioned hazard class (Source: Safety Data Sheet) DODECANOL: LC50 (1h) > 71 mg/L ==> The acute inhalation toxicity related to dust/mist is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TETRADECANOL: LC50 (1h) > 1,5 mg/L ==> The acute inhalation toxicity related to vapours is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TETRADECANOL: LC50 (1h) > 1,5 mg/L ==> 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].	
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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) SODIUM-ALKYLETHERSULFATE: Causes skin irritation. (Source: Safety Data Sheet) DODECANOL: non-irritant. (Source: Safety Data Sheet) TETRADECANOL: 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 Causes eye irritation. Species Method Bridging principle "Substantially similar mixtures". Information on ingredients 1,2-ETHANDIOL: non-irritant. (Source: Safety Data Sheet) 2-(2-BUTOXYETHOXY)ETHANOL: Causes serious eye irritation. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: Causes serious eye damage. (Source: Safety Data Sheet) DODECANOL: non-irritant. (Source: Safety Data Sheet) TETRADECANOL: Causes serious eye irritation. (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 1,2-ETHANDIOL: not sensitising.





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	(Source: Safety Data Sheet)
2-(2-BL	ITOXYETHOXY)ETHANOL:
	not sensitising.
2000	(Source: Safety Data Sheet) M-ALKYLETHERSULFATE:
SODIO	not sensitising.
	(Source: Safety Data Sheet)
	CANOL:
DODLO	not sensitising.
	(Source: Safety Data Sheet)
TETRA	DECANOL:
	not sensitising.
	(Source: Safety Data Sheet)
INGRE	DIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	not sensitising.
	(Source: Safety Data Sheet)
e) Ge	rm cell mutagenicity
Prepara	ation related information
There a	re no data available on the mixture itself.
	tion on ingredients
1,2-ETH	HANDIOL:
	No indications of human germ cell mutagenicity exist.
0 <i>(</i> 0 D 1	(Source: Safety Data Sheet)
2-(2-BU	ITOXYETHOXY)ETHANOL:
	No indications of human germ cell mutagenicity exist. (Source: Safety Data Sheet)
	(Source: Salety Data Sheet) M-ALKYLETHERSULFATE:
000101	No indications of human germ cell mutagenicity exist.
	(Source: Safety Data Sheet)
DODEC	CANOL:
	No indications of human germ cell mutagenicity exist.
	(Source: Safety Data Sheet)
TETRA	DECANOL:
	No indications of human germ cell mutagenicity exist.
	(Source: Safety Data Sheet)
INGRE	DIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	No indications of human germ cell mutagenicity exist.
	(Source: Safety Data Sheet)
-	rcinogenicity
	ation related information
	re no data available on the mixture itself.
1, Z- E11	HANDIOL:
	No indication of human carcinogenicity. (Source: Safety Data Sheet)
2-(2-RI	
2-(2-BL	ITOXYETHOXY)ETHANOL: No indication of human carcinogenicity.
2-(2-BL	No indication of human carcinogenicity.
·	
·	No indication of human carcinogenicity. (Source: Safety Data Sheet)
·	No indication of human carcinogenicity. (Source: Safety Data Sheet) M-ALKYLETHERSULFATE:
·	No indication of human carcinogenicity. (Source: Safety Data Sheet) <i>M-ALKYLETHERSULFATE:</i> No indication of human carcinogenicity. (Source: Safety Data Sheet)
SODIU	No indication of human carcinogenicity. (Source: Safety Data Sheet) <i>M-ALKYLETHERSULFATE:</i> No indication of human carcinogenicity. (Source: Safety Data Sheet)





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TETRADECANOL:	
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	
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)	
SODIUM-ALKYLETHERSULFATE:	
No indications of human reproductive toxicity exist.	
(Source: Safety Data Sheet)	
DODECANOL:	
No indications of human reproductive toxicity exist. (Source: Safety Data Sheet)	
TETRADECANOL:	
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	
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) SODIUM-ALKYLETHERSULFATE:	
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.	



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	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)	
	SODIUM-ALKYLETHERSULFATE:	
	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)	
1	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)	
	SODIUM-ALKYLETHERSULFATE:	
	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)	
1		
11.2	Information on other hazards	
	Endocrine disrupting properties	
1	Preparation related information	
1	There are no data available on the mixture itself.	
1		
	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)	
	SODIUM-ALKYLETHERSULFATE:	
I	This substance does not have endocrine disrupting properties with respect to humans.	



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(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!

SECTION 12: Ecological information

12.1 Toxicity

•	IONICITY	
	Acute (short-term) fish toxicity	
	Preparation related information	
	Effective dose LC50	: > 100 < 1000* mg/L
	Exposure time	: 96 h
	Species	: Leuciscus idus (golden orfe)
	Method	: Bridging principle "Substantially similar mixtures".
	Information on ingredients	
	1,2-ETHANDIOL:	
	LC50 (96h) > 72860 mg/	
		e «Registered substances»)
	2-(2-BUTOXYETHOXY)ETHANO	L:
	LC50 (96hr) 1300mg/L	- · · · · · · ·
		e «Registered substances»)
	SODIUM-ALKYLETHERSULFAT	E:
	LC50 (96h) 7,1 mg/L	e «Registered substances»)
	DODECANOL:	e «Negisiereu substances»)
	LC50 (96h) 1,01 mg/L	
		e «Registered substances»)
	TETRADECANOL:	,
	LC50 (96h) > 1,0 mg/L	
		e «Registered substances»)
	INGREDIENTS NOT CLASSIFIE	D AS HAZARDOUS SUBSTANCES:
		pove-mentioned hazard class
	(Source: Safety Data Sh	eet)
	Acute (short-term) toxicity to cr	ustacea
	Preparation related information	40.400*
		: > 10 < 100* mg/L
	Exposure time	: 48 h
	Species	: Daphnia magna (Big water flea)
	Method	: Bridging principle "Substantially similar mixtures".
	Information on ingredients	
	1,2-ETHANDIOL:	n.
	EC50 (48h) > 13900 mg	
	2-(2-BUTOXYETHOXY)ETHANO	e «Registered substances»)
	EC50 (48hr) > 1101 mg/l	
		-





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(Source: EC	CHA databas	e «Registered su	bstances»)		
SODIUM-ALKYLETH	IERSULFAT	E:			
EC50 (48h)	7,4 mg/L				
•	CHA databas	e «Registered su	bstances»)		
DODECANOL:					
		; EC50 (48h) 0,7			
	CHA databas	e «Registered su	bstances»)		
TETRADECANOL:					
EC50 (48h)					
,		e «Registered su	,	0.50	
INGREDIENTS NOT				CES:	
		bove-mentioned	hazard class		
(Source. Sa	fety Data Sh	eel)			
Acute (short-term) t	oxicity to al	qae and cyanob	acteria		
Preparation related in	-	5			
Effective dose		: > 10 < 100*	mg/L		
Exposure time		: 72 h	5		
Species		: Scenedesmus	s subspicatus		
Method				lly similar mixtur	es".
Information on ingred	lients				
1,2-ETHANDIOL:					
,	> 6500 ma/l	; NOEC (96h) 47	79 ma/l		
· · ·	-	e «Registered su	-		
2-(2-BUTOXYETHO					
EC50 (72h)	,				
		e «Registered su	bstances»)		
SODIUM-ALKYLETH			,		
EC50 (72h)	27,7 mg/L; N	IOEC (72h) 0,95	mg/L		
(Source: EC	CHA databas	e «Registered su	bstances»)		
DODECANOL:					
EC50 (72h)	0,66 mg/L				
	CHA databas	e «Registered su	bstances»)		
TETRADECANOL:					
EL50 (96h)	•				
		e «Registered su		050	
INGREDIENTS NOT				UES:	
		bove-mentioned	nazard class		
(Source: Sa	fety Data Sh	eet)			
Effects in sewage p	lants				
Preparation related in	nformation				
Analytical method	: Respiratory	inhibition of mur	nicipal activated	sludge.	
200* mg/L		centration	: 100%	Dilution	: > 5000*
3300* mg/L		centration	: 6%	Dilution	: > 303*
0		inciple "Substanti			
Information on ingred					
1,2-ETHANDIOL:					
	n) > 1995 mg	/L			
•	, .	e «Registered su	bstances»)		
		-			
2-(2-BUTOXYETHO					
2-(2-BUTOXYETHO NOEC (0,5h	,				
NOEC (0,5ł	n) 1995 mg/L	e «Registered su	bstances»)		
NOEC (0,5ł	n) 1995 mg/L CHA database	e «Registered su E:	bstances»)		
NOEC (0,5 (Source: EC SODIUM-ALKYLET	n) 1995 mg/L CHA databas HERSULFAT	-			





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DODECANOL:

NOEC (0,5h) > 10000 mg/L (Source: ECHA database «Registered substances») *TETRADECANOL:* NOEC (14d) 10000 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)

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

The product may lead to foaming in sewage plants.

Remark

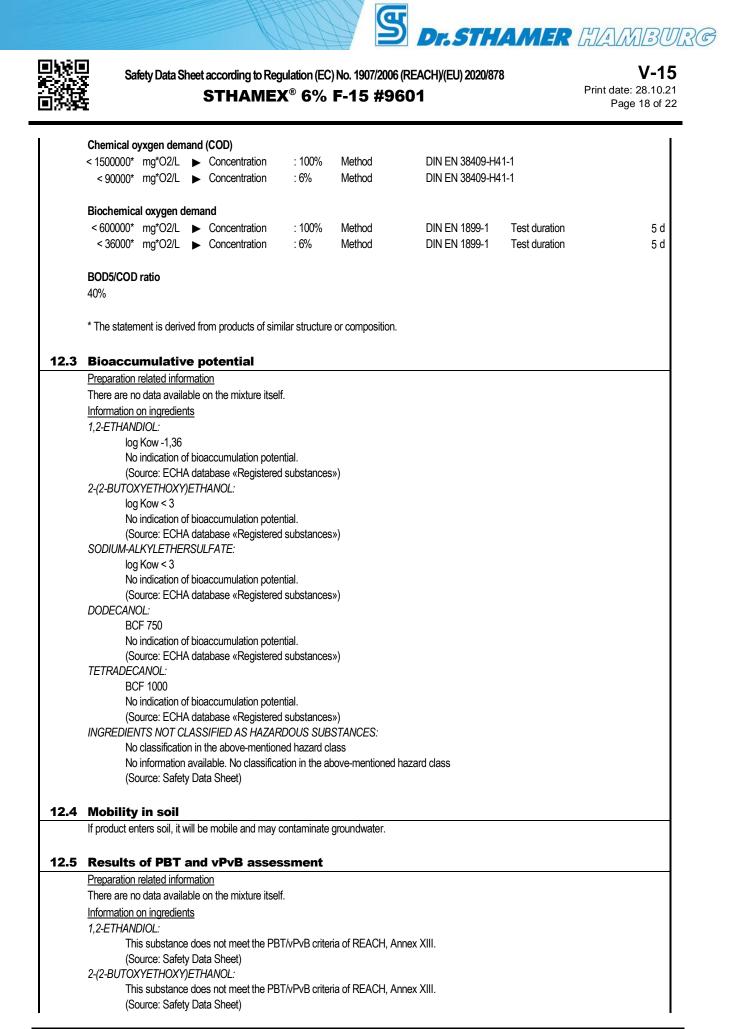
Observe local regulations concerning effluent treatment. Special pre-treatments are necessary.

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

12.2 Persistence and degradability

Biodegradation

Diouegrauation		
Preparation related information		
Readily biodegradable (accordin	ng to OECD criteria).	
Degradation rate	: > 70%*	
Test duration	: 28 d	
Analytical method	: BOD (% of COD).	
Method	: Bridging principle "Substantially similar mixtures".	
Туре	: Aerobic biological treatment	
Information on ingredients		
1,2-ETHANDIOL:		
> 90% (10d) OECD 30)1A	
	(according to OECD criteria).	
	ase «Registered substances»)	
2-(2-BUTOXYETHOXY)ETHAN		
92% (28d) OECD 301		
	(according to OECD criteria).	
SODIUM-ALKYLETHERSULFA	ase «Registered substances») A <i>TE·</i>	
> 60% (14d) OECD 30		
	(according to OECD criteria).	
, ,	ase «Registered substances»)	
DODECANOL:	,	
79% (28d) OECD 301	D	
, ,	(according to OECD criteria).	
	ase «Registered substances»)	
TETRADECANOL:		
82,2% (28d) OECD 30		
	(according to OECD criteria).	
	ase «Registered substances») IED AS HAZARDOUS SUBSTANCES:	
> 70% (28d) OECD 30		
· · /	(according to OECD criteria).	
(Source: Safety Data S	, , , , , , , , , , , , , , , , , , ,	
(control contry bala c		







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	SODIUM-ALKYLETHERSULFATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet) DODECANOL:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	TETRADECANOL:
	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
	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)
	SODIUM-ALKYLETHERSULFATE:
	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)
12.7	Other adverse effects

SECTION 13: Disposal considerations

13.1	Waste	treatment methods	
	Waste dis	posal according to directive 2008/98/EC, covering waste and dangerous waste.	
	Dispose o	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)





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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

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



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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

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

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

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

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

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

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

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

National regulations

Störfallverordnung

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 6% application solution of STHAMEX 6% F-15 #9601:





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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)

H302	Harmful if swallowed or if inhaled.
H315	Causes skin and eye irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373.8	May cause damage to kidneys through prolonged or repeated exposure if swallowed.
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.