



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

STHAMEX[®]-IAF 2% F-10 #9271

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1.1	Product identifier	
	STHAMEX [®] -IAF 2% F	-10 #9271
	UFI: 3YNT-JOUD-VOOQ-GF08	
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 sa	fety data sheet
	Manufacturer	Fabrik chemischer Präparate von Dr. R. Sthamer GmbH & Co. KG
	Street	Liebigstraße 5
	Postal code/City	D-22113 Hamburg
	Country	Deutschland
	Telephone	+49 (0)40/736168-0
	Telefax	+49 (0)40/736168-60
	E-mail (competent person)	labor@sthamer.com
	Website	http://sthamer.com
	Department responsible for information	Dr. Prall, +49 (0)40/736168-31
	Emergency telephone number	+49 (0)40/736168-0
1.4	Emergency telephone number	
	GIZ-Nord Poisons Centre of the University of Gö	ıttingen
	Telephone	+49 (0)551/19240

SECTION 2: Hazards identification

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

2.1	Classification of the		
	Classification according to R Skin Irrit. 2 H315 - Eye Irrit. 2 H		
2.2	Label elements		
	Labelling according to Regul	ation (EC) No. 1272/2008	3 [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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 Other hazards
Endocrine disrupting properties
Preparation related information
There are no data available on the mixture itself.
Information on ingredients
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.
TRIETHANOLAMMONIUM-LAURYLSULFATE:
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-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.
TRIETHANOLAMMONIUM-LAURYLSULFATE:
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 ca
hindered by the strong foam formation.

3.1 Substances

not applicable





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3.2 Mixtures

1-BUTOXY-2-PROPANOL

CAS No.: 5131-66-8 EC No.: 225-878-4 REACH No.: 01-2119475527-28-XXXX Concentration: 15 - 20% 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

TRIETHANOLAMMONIUM-LAURYLSULFATE

CAS No.: 85665-45-8 EC No.: 288-134-8 REACH No.: 01-2119966908-16-XXXX Concentration: 10 - 15% Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Irrit. 2-Aquatic Chronic 3; H315-H319-H412

DODECANOL

CAS No.: 112-53-8 EC No.: 203-982-0 REACH No.: 01-2119485976-15-XXXX Concentration: 0,25 - 2,5% 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: 0,25 - 2,5% 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: 30 - 57,5% 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.





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SECTION 4: First aid measures 4.1 **Description of first aid measures** General information Remove contaminated, saturated clothing immediately. Wash thoroughly the body (shower or bath). Observe risk of aspiration if vomiting occurs. When in doubt or if symptoms are observed, get medical advice. Following inhalation Provide fresh air. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. In case of skin contact Wash immediately with:: Water After eye contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Following ingestion Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. 4.2 Most important symptoms and effects, both acute and delayed Dizziness Nausea Gastrointestinal complaints 4.3 Indication of any immediate medical attention and special treatment needed If unconscious but breathing normally, place in recovery position and seek medical advice. IF SWALLOWED: Immediately call a POISON CENTER/doctor/... **SECTION 5: Firefighting measures**

5.1 Extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the substance or mixture

The product itself does not burn.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

6.2 Environmental precautions

Cover drains.





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

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
	Requirements for storage rooms and vessels
	Suitable container/equipment material
	Refined steel
	Polyethylene (PE)
	Unsuitable container/equipment material
	Aluminium
	Light metal
	Copper
	Zinc





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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: ---CAS No.: ---REACH No.: ---

Occupational exposure limit values: ---; Limit value type (country of origin): ---

8.2 Exposure controls

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

Eye/face protection

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





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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

a)	Physical state			:	Liquid		
b	Colour			:	colourless / yellow		
C)	Odour			:	Glycol, Ether, Surfactant		
d) Melting point/freezir	g point		:	-10°C	EN 1568:2018	3
e)	Melting point/freezir	g point		:	> 100°C	DIN 51751	
f)	Flammability			:	not applicable		
g) Lower and upper ex	plosion limit/flamm	ability				
	limit			:	No data available		
h	· ·			:	No flash point up to 100 °C.		
i)	Ignition temperature			:	not applicable		
j)	Decomposition tem			:	No data available		
k)		at °C	20	:	6,5 - 8,5	DIN 19268	
I)	Viscosity	at °C	20	:	< 30 mm²/s	DIN 51562	Newton
		at °C	-10	:	< 120 mm²/s	DIN 51562	Newton
m	, ,			:	Water: completely miscible	OECD 105	
nj		n-octanol/water (lo	g				
	value)			:	not applicable		
0				:	No data available		
p) Density and/or relati density	ve at °C	20		1,010, 1,050 a/ml	DIN 12791	
q	_ ,		20	:	1,010 - 1,050 g/ml No data available	DIN 12791	
ч. r)	· · · · · · · ·	•		÷	not applicable		
''				•			
C	ther information	1					
lr	nformation with reg	ard to physical	haza	rd o	classes		
a)	Explosives			:	not applicable		
b)) Explosives			:	not applicable		
C)	Aerosols			:	not applicable		
d) Oxidising gas			:	not applicable		
e)	•	re		:	not applicable		
f)	Flammable liquids			:	not applicable		
g) Flammable solids			:	not applicable		
h) Self-reactive substa	nces and mixtures		:	not applicable		
i)	Pyrophoric liquids			:	not applicable		
j)	Pyrophoric solids				not applicable		



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k)	Self-heating substances and mixtures	:	not applicable
I)	Substances or mixtures which, in contact with		
	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	:	~ 3200 µS/cm
h)	Corrosiveness	:	Skin corrosion/irritation: irritant
			Serious eye damage/irritation: irritant
i)	gas group	:	not applicable
j)	Redox potential	:	not applicable
k)	radical formation potential	:	not applicable
D)	photocatalytic properties	:	not applicable

S

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

SECTION 10: Stability and reactivity

10.1	Reactivity
	Materials to avoid
	Alkali (lye), concentrated
	Alkali metals
	Acid, concentrated
	Oxidising agent, strong
	Reducing agent, strong
	Acid halides
10.2	Chemical stability
	No special measures are necessary.
10.3	Possibility of hazardous reactions
	No special measures are necessary.
10.4	Conditions to avoid
	Do not store at temperatures above: +50°C
10.5	Incompatible materials
	See section 7. No additional measures necessary.
10.6	Hazardous decomposition products





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SECTION 11: Toxicological information 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Test was carried out with a similar preparation/mixture. a) Acute toxicity Acute oral toxicity Preparation related information LD50 > 2000 mg/kg The acute oral toxicity is corresponding to GHS-category 5. Species Rat Method Bridging principle "Substantially similar mixtures". Information on ingredients 1-BUTOXY-2-PROPANOL: LC50 (14d) 3300 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») SODIUM-ALKYLETHERSULFATE: LD50 (14d) > 2000 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: LD50 (14d) > 3200 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») TRIETHANOLAMMONIUM-LAURYLSULFATE: LD50 (14d) > 1650 mg/kg ==> The acute oral toxicity is corresponding to GHS-category 5. (Source: ECHA database «Registered substances») DODECANOL: LD50 (14d) > 2000 mg/kg ==> 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. Information on ingredients 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)





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SODIUM-AI	KYLETHERSULFATE:
LD	50 (14d) > 2000 mg/kg ==>
Th	e acute dermal toxicity is corresponding to GHS-category 5.
(Sc	purce: ECHA database «Registered substances»)
TRIETHAN	DLAMMONIUM-LAURYLSULFATE:
LD	50 (14d) > 2000 mg/kg ==>
	e acute dermal toxicity is corresponding to GHS-category 5.
(Sc	purce: ECHA database «Registered substances»)
DODECÂN	DL:
LD	50 (14d) 8000 mg/kg ==>
	e acute dermal toxicity is corresponding to GHS-category 5.
(Sc	purce: ECHA database «Registered substances»)
TETRADEC	ANOL:
LD	50 (14d) 8000 mg/kg ==>
Th	e acute dermal toxicity is corresponding to GHS-category 5.
(Sc	purce: ECHA database «Registered substances»)
INGREDIEN	ITS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
Th	e substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
	classification in the above-mentioned hazard class
(Sc	burce: Safety Data Sheet)
Acute inhal	ation toxicity
	related information
	o data available on the mixture itself.
	on ingredients
	2-PROPANOL:
	EC (4h) 651 ppm; LC50 (4h) > 3,5 mg/L ==>
	e acute inhalation toxicity related to vapours is corresponding to GHS-category 5.
	purce: Safety Data Sheet)
•	KYLETHERSULFATE:
	data available
	information available. No classification in the above-mentioned hazard class
(Sc	purce: Safety Data Sheet)
	KYLETHERSULFATE:
No	data available
No	information available. No classification in the above-mentioned hazard class
(Sc	purce: Safety Data Sheet)
	DLAMMONIUM-LAURYLSULFATE:
No	data available
No	information available. No classification in the above-mentioned hazard class
(Sc	burce: Safety Data Sheet)
DODECAN	
LC	50 (1h) > 71 mg/L ==>
	e acute inhalation toxicity related to dust/mist is corresponding to GHS-category 5.
(Sc	purce: ECHA database «Registered substances»)
TETRADEC	-
LC	50 (1h) > 1,5 mg/L ==>
	e acute inhalation toxicity related to vapours is corresponding to GHS-category 5.
	purce: ECHA database «Registered substances»)
•	ITS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
Th	e substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
	classification in the above-mentioned hazard class
	ource: Safety Data Sheet)
h) Skin o	prosion/irritation
	related information
roparauori	





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Causes skin irritation. Species Method Bridging principle "Substantially similar mixtures". Information on ingredients 1-BUTOXY-2-PROPANOL: Causes skin irritation. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: Causes skin irritation. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: Causes skin irritation. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: 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-BUTOXY-2-PROPANOL: Causes serious eye irritation. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: Causes serious eye damage. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: Causes serious eye damage. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: Causes serious eye irritation. (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





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There are no data available on the mixture itself. Information on ingredients 1-BUTOXY-2-PROPANOL: not sensitising. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: not sensitising. (Source: Safety Data Sheet) SODIUM-ALKYLETHERSULFATE: not sensitising. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: not sensitising. (Source: Safety Data Sheet) DODECANOL: not sensitising. (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 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) TRIETHANOLAMMONIUM-LAURYLSULFATE: 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 1-BUTOXY-2-PROPANOL:

No indication of human carcinogenicity.





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((Source: Safety Data Sheet)
SODIUM-	ALKYLETHERSULFATE:
1	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
	ALKYLETHERSULFATE:
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
	NOLAMMONIUM-LAURYLSULFATE:
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
DODECA	
	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
	ECANOL:
1	No indication of human carcinogenicity.
((Source: Safety Data Sheet)
INGREDI	ENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
1	No indication of human carcinogenicity.
	(Source: Safety Data Sheet)
,	· · · ·
g) Repr	oductive toxicity
•	on related information
	no data available on the mixture itself.
	on on ingredients
	Y-2-PROPANOL:
	No indications of human reproductive toxicity exist.
	(Source: Safety Data Sheet)
	ALKYLETHERSULFATE:
	No indications of human reproductive toxicity exist.
	(Source: Safety Data Sheet)
	ALKYLETHERSULFATE:
1	No indications of human reproductive toxicity exist.
((Source: Safety Data Sheet)
TRIETHA	NOLAMMONIUM-LAURYLSULFATE:
1	No indications of human reproductive toxicity exist.
((Source: Safety Data Sheet)
DODECĂ	NOL:
1	No indications of human reproductive toxicity exist.
	(Source: Safety Data Sheet)
TETRAD	
	No indications of human reproductive toxicity exist.
	Source: Safety Data Sheet)
	ENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:
	No indications of human reproductive toxicity exist.
(Source: Safety Data Sheet)
L) 070	
-	T-single exposure
	on related information
There are	no data available on the mixture itself.
Informatio	on on ingredients
mornauo	
	(Y-2-PROPANOL:
1-BUTOX	
1-BUTOX	No known symptoms to date.
1-BUTOX M	
1-BUTOX I (SODIUM-	No known symptoms to date. (Source: Safety Data Sheet) ALKYLETHERSULFATE:
1-BUTOX I (SODIUM-	No known symptoms to date. (Source: Safety Data Sheet)





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SODIUM-ALKYLETHERSULFATE: No known symptoms to date. (Source: Safety Data Sheet) TRIETHANOLAMMONIUM-LAURYLSULFATE: 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 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) TRIETHANOLAMMONIUM-LAURYLSULFATE: 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 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) TRIETHANOLAMMONIUM-LAURYLSULFATE:





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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)
.2	Information on other hazards
	Endocrine disrupting properties
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	1-BUTOXY-2-PROPANOL:
	This substance does not have endocrine disrupting properties with respect to
	(Source: Safety Data Sheet)
	SODIUM-ALKYLETHERSULFATE:

11.2

mormation on other mazards
Endocrine disrupting properties
Preparation related information
There are no data available on the mixture itself.
Information on ingredients
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)
TRIETHANOLAMMONIUM-LAURYLSULFATE:
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!

SECTION 12: Ecological information 12.1 Toxicity Acute (short-term) fish toxicity Preparation related information Effective dose LC50 : > 10 < 100* mg/L Exposure time :96 h Species : Leuciscus idus (golden orfe) Method : Bridging principle "Substantially similar mixtures". Information on ingredients 1-BUTOXY-2-PROPANOL: LC50 (96h) 560 mg/L (Source: ECHA database «Registered substances»)





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SODIUM-ALKYLET		E:	
· · ·) 1 - 10 mg/L		
`	afety Data Sh	,	
SODIUM-ALKYLET		E:	
LC50 (96h	-		(hatanaan)
(Source: E		e «Registered su	idstances»)
LC50 (96h		ATLSOLI ATL.	
· ·		e «Registered su	(hstances»)
DODECANOL:			
) 1,01 mg/L		
	-	e «Registered su	lbstances»)
TETRADECANOL:		C C	
LC50 (96h) > 1,0 mg/L		
(Source: E	CHA databas	e «Registered su	ibstances»)
			OUS SUBSTANCES:
		bove-mentioned	hazard class
(Source: S	afety Data Sh	neet)	
Acute (short-term)	toxicity to cr	rustacea	
Preparation related	-		
Effective dose		: > 10 < 100*	mg/L
Exposure time		: 48 h	J
Species		: Daphnia mag	na (Big water flea)
Method			iple "Substantially similar mixtures".
Information on ingre	dients	0.01	. ,
1-BUTOXY-2-PROF			
) > 1000 mg/L	_	
	, -	e «Registered su	ibstances»)
SODIUM-ALKYLET		-	
) 10 - 100 mg		
	afety Data Sh		
SODIUM-ALKYLET		E:	
EC50 (48h		D · · · ·	
		e «Registered su	ibstances»)
TRIETHANOLAMM		TILOULFAIE:	
EC50 (48h (Source: E		e «Registered su	(hstances»)
DODECANOL:		ะ งางอยู่เอเอเอน จบ	10310110 0 3//
	h) 0.316 ma/l	.; EC50 (48h) 0,7	65 mg/l
		e «Registered su	-
(Source: F		3.0.0100.00	
(Source: E TETRADECANOL:			
•) 3,2 mg/L		
TETRADECANOL: EC50 (48h	,	e «Registered su	lbstances»)
TETRADECANOL: EC50 (48h (Source: E	CHA databas	•	ibstances») DUS SUBSTANCES:
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO	CHA databas T CLASSIFIE	•	OUS SUBSTANCES:
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO No classific	CHA databas T CLASSIFIE	D AS HAZARDO	OUS SUBSTANCES:
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO No classifit (Source: S	CHA databas T CLASSIFIE cation in the a afety Data Sh	D AS HAZARDC bove-mentioned neet)	DUS SUBSTANCES: hazard class
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO No classifit (Source: S Acute (short-term)	CHA databas T CLASSIFIE cation in the a afety Data Sh toxicity to al	D AS HAZARDC bove-mentioned neet)	DUS SUBSTANCES: hazard class
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO No classific (Source: S Acute (short-term) Preparation related	CHA databas T CLASSIFIE cation in the a afety Data Sh toxicity to al information	D AS HAZARDC bove-mentioned neet) gae and cyanob	DUS SUBSTANCES: hazard class
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO No classifik (Source: S Acute (short-term) Preparation related Effective dose	CHA databas T CLASSIFIE cation in the a afety Data Sh toxicity to al	D AS HAZARDC bove-mentioned neet) gae and cyanob : > 10 < 100*	DUS SUBSTANCES: hazard class
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO No classifit (Source: S Acute (short-term) Preparation related Effective dose Exposure time	CHA databas T CLASSIFIE cation in the a afety Data Sh toxicity to al information	D AS HAZARDC bove-mentioned neet) gae and cyanob : > 10 < 100* : 72 h	DUS SUBSTANCES: hazard class pacteria mg/L
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO No classifit (Source: S Acute (short-term) Preparation related Effective dose Exposure time Species	CHA databas T CLASSIFIE cation in the a afety Data Sh toxicity to al information	D AS HAZARDC bove-mentioned leet) gae and cyanob : > 10 < 100* : 72 h : Scenedesmus	DUS SUBSTANCES: hazard class macteria mg/L s subspicatus
TETRADECANOL: EC50 (48h (Source: E INGREDIENTS NO No classific (Source: S Acute (short-term) Preparation related	CHA databas T CLASSIFIE cation in the a afety Data Sh toxicity to al information EC50	D AS HAZARDC bove-mentioned leet) gae and cyanob : > 10 < 100* : 72 h : Scenedesmus	DUS SUBSTANCES: hazard class pacteria mg/L





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EC50 (96h)	> 1000 mg/L; NOEC (96h)	569 mg/L		
(Source: EC	HA database «Registered	substances»)		
SODIUM-ALKYLETH	IERSULFATE:			
EC50 (72h)				
(Source: Sa	fety Data Sheet)			
SODIUM-ALKYLETH	IERSULFATE:			
EC50 (72h)	27,7 mg/L; NOEC (72h) 0,	95 mg/L		
• •	HA database «Registered	-		
· ·	DNIUM-LAURYLSÜLFATE	,		
EC50 (72h)	11 mg/L; NOEC (72h) 3 m	a/L		
· · ·	HA database «Registered	•		
DODECANOL:	0	,		
EC50 (72h)	0.66 mg/L			
· · ·	HA database «Registered	substances»)		
TETRADECANOL:		,		
EL50 (96h)	> 10 ma/l			
· · /	CHA database «Registered	substances»)		
•	CLASSIFIED AS HAZARI	,	CES	
	ation in the above-mentione			
	fety Data Sheet)			
	iory Bata choory			
Effects in sewage pl				
Preparation related in				
Analytical method	: Respiratory inhibition of n		sludge.	
200* mg/L	 Concentration 	: 100%	Dilution	: > 5000*
10000* mg/L	 Concentration 	: 2%	Dilution	: > 100*
Method	: Bridging principle "Substa	antially similar mixt	ures".	
Information on ingred				
EC50 (3h) >	· 1000 ma/L			
. ,	HA database «Registered	substances»)		
SODIUM-ALKYLETH		,		
) > 10000 mg/L			
· · ·	fety Data Sheet)			
SODIUM-ALKYLETH	• /			
	> 10000 mg/L; NOEC (16h	n > 10000 mg/l		
	CHA database «Registered			
,	DNIUM-LAURYLSULFATE	,		
EC50 (3h) 1		•		
	CHA database «Registered	substances»)		
DODECANOL:		00000000000		
	n) > 10000 mg/L			
	HA database «Registered	substances»)		
TETRADECANOL:	In ualabase «negisleieu	substances»)		
) 10000 mg/L			
	-	aubatanaaa»)		
	CHA database «Registered			
	CLASSIFIED AS HAZARI ation in the above-mentione		JEJ.	
	fety Data Sheet)			
(. ,			
		hattene to adapted	biological sewag	ge plants, will not disturb the biodegradability of activa
•	leases of minimal concent			3° p
sludge.	leases of minimal concenti d to foaming in sewage plai			ge provide, internet and and an end generating a second

Observe local regulations concerning effluent treatment.





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Special pre-treatments are necessary.

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

Biodegradation	legradability							
•	tion							
Preparation related information		aria)						
Readily biodegradable (according to OECD criteria).								
Degradation rate	: > 70%*							
Test duration	: 28 d							
Analytical method	: BOD (% of C							
Method			antially similar m	ixtures".				
Туре	: Aerobic biolo	ogical treatm	ent					
Information on ingredients								
1-BUTOXY-2-PROPANOL								
90% (10d) OECD								
	table (according to C		,					
	atabase «Registered	d substances	s»)					
SODIUM-ALKYLETHERS								
>70% (28d) OEC Readily biodegrad	dable (according to 0	NECD oritori	a)					
(Source: Safety D			a).					
SODIUM-ALKYLETHERS	,							
> 60% (14d) OEC								
. ,	dable (according to (DECD criteri:	a).					
	atabase «Registered							
TRIETHANOLAMMONIUN	-							
92% (30d) OECD	301 D							
Readily biodegrad	dable (according to 0	DECD criteria	a).					
(Source: ECHA d	atabase «Registered	d substances	s»)					
DODECANOL:								
79% (28d) OECD								
	dable (according to 0							
	atabase «Registered	d substances	s»)					
TETRADECANOL:								
82,2% (28d) OEC			- \					
	dable (according to (
INGREDIENTS NOT CLA	atabase «Registered		,					
> 70% (28d) OEC		D003 30D	STANCES.					
. ,	dable (according to 0)ECD criteria	a)					
(Source: Safety E			~/·					
Chemical oyxgen deman	d (COD)							
<1500000* mg*O2/L	 Concentration 	: 100%	Method	DIN EN 38409-H4	11-1			
< 30000* mg*O2/L ►	 Concentration 	: 2%	Method	DIN EN 38409-H4	11-1			
Biochemical oxygen den	hand							
<600000* mg*O2/L		: 100%	Method	DIN EN 1899-1	Test duration			
< 12000* mg*O2/L		: 2%	Method	DIN EN 1899-1	Test duration			
BOD5/COD ratio								
40%								

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





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123	Bioaccumulative potential
210	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	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»)
	TRIETHÀNOLAMMONIUM-LAURYLSŨLFATE:
	log Pow < -0,76
	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)
2.4	Mobility in soil
	If product enters soil, it will be mobile and may contaminate groundwater.
2.5	Results of PBT and vPvB assessment
	Preparation related information
	There are no data available on the mixture itself.
	Information on ingredients
	1-BUTOXY-2-PROPANOL:
	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.
	(Source: Safety Data Sheet)
	TRIETHANOLAMMONIUM-LAURYLSULFATE:
	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
	(Source: Safety Data Sheet)
	DODECANOL:





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	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-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)
	TRIETHANOLAMMONIUM-LAURYLSULFATE:
	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.
	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
	_
12.7	

SECTION 13: Disposal considerations

13.1 Waste treatment methods Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation. Waste codes/waste designations according to EWC/AVV Waste code product 16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST 1603 off-specification batches and unused products 160305* organic wastes containing dangerous substances Waste code packaging WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT 15 OTHERWISE SPECIFIED 1501 packaging (including separately collected municipal packaging waste) 150110* packaging containing residues of or contaminated by dangerous substances

Remark





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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

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.



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r.STHAMER HAMBURG

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 2% application solution of STHAMEX-IAF 2% F-10 #9271:

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.





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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.			