



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

vaPUREx[®] LV 1% F-10 #7141



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

vaPUREx[®] LV 1% F-10 #7141

UFI: V3SM-G0NU-G00M-H9SU

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 Göttingen

+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 substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]
Skin Irrit. 2 H315 - Eye Irrit. 2 H319 - Aquatic Chronic 4 H413

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms



Signal word	WARNING	
Hazard statements	H315	Causes skin and eye irritation.
	H319	Causes serious eye irritation.
	H413	May cause long lasting harmful effects to aquatic life.
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

P305+P351+P338 water [or shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Classification procedure On basis of test data./Experimental data

2.3 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-ALPHA-OLEFIN SULFONATE:

This substance does not have endocrine disrupting properties with respect to humans.

ALKYLDIMETHYLAMIN-N-OXIDE:

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-ALPHA-OLEFIN SULFONATE:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

ALKYLDIMETHYLAMIN-N-OXIDE:

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-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; Skin Irrit. 2-Eye Irrit. 2; H315-H319

SODIUM-ALPHA-OLEFIN SULFONATE

CAS No.: 68439-57-6

EC No.: 931-534-0

REACH No.: 01-2119513401-57-XXXX

Concentration: 1 - 5%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05; Skin Irrit. 2-Eye Dam. 1; H315-H318

ALKYLDIMETHYLAMIN-N-OXIDE

CAS No.: 308062-28-4

EC No.: 931-292-6

REACH No.: 01-2119490061-47-XXXX

Concentration: 1 - 5%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05-GHS07-GHS09; Acute Tox. 4-Skin Irrit. 2-Eye Dam. 1-Aquatic Acute 1-Aquatic Chronic 2; H302-H315-H318-H400-H411

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: 60 - 78%

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The product does not contain any relevant amounts of substances that are on the SVHC list.

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.
Wash thoroughly the body (shower or bath).
Observe risk of aspiration if vomiting occurs.
When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Provide fresh air.
Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

In case of skin contact

Wash immediately with:: Water

After eye contact

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

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Dizziness
Nausea
Gastrointestinal complaints

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

The product itself does not burn.

5.3 Advice for firefighters

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

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

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: ---

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
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/freezing point	:	-10°C	EN 1568:2018	
e) Boiling point or initial boiling point and boiling range	:	> 100°C	DIN 51751	
f) Flammability	:	not applicable		
g) Lower and upper explosion limit/flammability limit	:	No data available		
h) Flash point	:	No flash point up to 100 °C.		
i) Ignition temperature in °C	:	not applicable		
j) Decomposition temperature	:	No data available		
k) pH	at °C	20	6,5 - 8,5	DIN 19268
l) Viscosity	at °C	20	< 20 mm ² /s	DIN 51562
	at °C	-10	< 120 mm ² /s	DIN 51562
m) Solubility	:	Water: completely miscible	OECD 105	Newton
n) Partition coefficient n-octanol/water (log value)	:	not applicable		
o) Vapour pressure	:	No data available		
p) Density and/or relative density	at °C	20	1,050 - 1,090 g/ml	DIN 12791
q) Relative vapour density	:	No data available		
r) particle characteristics	:	not applicable		

9.2 Other information

Information with regard to physical hazard 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 |
| l) 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 |

Other 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 | : ~ 5000 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 |
| l) photocatalytic properties | : not applicable |

Additional hazards

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

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 On basis of test data.: OECD 420

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-ALPHA-OLEFIN SULFONATE:

LD50 (14d) > 2300 mg/kg ==>
The acute oral toxicity is corresponding to GHS-category 5.
(Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

LD50 (14d) 1064 mg/kg ==>
Harmful if swallowed.
(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-ALPHA-OLEFIN SULFONATE:

LD50 (14d) > 2200 mg/kg ==>
The acute dermal toxicity is corresponding to GHS-category 5.
(Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

LD50 (14d) > 2000 mg/kg ==>
The acute dermal toxicity is corresponding to GHS-category 5.
(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

The substances are not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].
No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

Acute inhalation toxicity

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1-BUTOXY-2-PROPANOL:

NOEC (4h) 651 ppm; LC50 (4h) > 3,5 mg/L ==>

The acute inhalation toxicity related to vapours is corresponding to GHS-category 5.

(Source: Safety Data Sheet)

SODIUM-ALPHA-OLEFIN SULFONATE:

LC50 (4h) >52 mg/L ==>

The acute inhalation toxicity related to vapours is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

No data available

No information available. No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

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

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

b) Skin corrosion/irritation

Preparation related information

Causes skin irritation.

Species Albino rabbit

Method On basis of test data.: OECD 404

Information on ingredients

1-BUTOXY-2-PROPANOL:

Causes skin irritation.

(Source: Safety Data Sheet)

SODIUM-ALPHA-OLEFIN SULFONATE:

Causes skin irritation.

(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

Causes skin irritation.

(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 Albino rabbit

Method On basis of test data.: OECD 404

Information on ingredients

1-BUTOXY-2-PROPANOL:

Causes serious eye irritation.

(Source: Safety Data Sheet)

SODIUM-ALPHA-OLEFIN SULFONATE:

Causes serious eye damage.

(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

Causes serious eye damage.

(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-BUTOXY-2-PROPANOL:

not sensitising.
(Source: Safety Data Sheet)

SODIUM-ALPHA-OLEFIN SULFONATE:

not sensitising.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

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-ALPHA-OLEFIN SULFONATE:

No indications of human germ cell mutagenicity exist.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

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.
(Source: Safety Data Sheet)

SODIUM-ALPHA-OLEFIN SULFONATE:

No indication of human carcinogenicity.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

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-BUTOXY-2-PROPANOL:

No indications of human reproductive toxicity exist.
(Source: Safety Data Sheet)

SODIUM-ALPHA-OLEFIN SULFONATE:

No indications of human reproductive toxicity exist.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

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-BUTOXY-2-PROPANOL:

No known symptoms to date.
(Source: Safety Data Sheet)

SODIUM-ALPHA-OLEFIN SULFONATE:

No known symptoms to date.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

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-ALPHA-OLEFIN SULFONATE:

No known symptoms to date.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

No known symptoms to date.
(Source: Safety Data Sheet)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No known symptoms to date.
(Source: Safety Data Sheet)

j) Aspiration hazard

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

1-BUTOXY-2-PROPANOL:

No known symptoms to date.
(Source: Safety Data Sheet)

SODIUM-ALPHA-OLEFIN SULFONATE:

No known symptoms to date.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

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

1-BUTOXY-2-PROPANOL:

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)

ALKYLDIMETHYLAMIN-N-OXIDE:

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 : ~ 120 mg/L
Exposure time : 96 h
Species : Leuciscus idus (golden orfe)
Method : On basis of test data.: OECD 203

Information on ingredients

1-BUTOXY-2-PROPANOL:

LC50 (96h) 560 mg/L

(Source: ECHA database «Registered substances»)

SODIUM-ALPHA-OLEFIN SULFONATE:

LC50 (96h) 4,2 mg/L

(Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

LC50 (96h) 3,67 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 aquatic invertebrates

Preparation related information

Effective dose EC50 : ~ 30 mg/L
Exposure time : 48 h
Species : Daphnia magna (Big water flea)
Method : On basis of test data.: OECD 202

Information on ingredients

1-BUTOXY-2-PROPANOL:

EC50 (48h) > 1000 mg/L

(Source: ECHA database «Registered substances»)

SODIUM-ALPHA-OLEFIN SULFONATE:

LC50 (48h) 4,53 mg/L

(Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

EC50 (48h) 3,1 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 algae and cyanobacteria

Preparation related information

Effective dose EC50 : ~ 0,5 mg/L
Exposure time : 72 h
Species : Scenedesmus subspicatus
Method : On basis of test data.: OECD 201

Information on ingredients

1-BUTOXY-2-PROPANOL:

EC50 (96h) > 1000 mg/L; NOEC (96h) 569 mg/L

(Source: ECHA database «Registered substances»)

SODIUM-ALPHA-OLEFIN SULFONATE:

EC50 (48h) 45 mg/L

(Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

EC50 (72h) 0,143 mg/L; NOEC (72h) 0,067 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.
200 mg/L ► Concentration : 100% Dilution : > 5000
20000 mg/L ► Concentration : 1% Dilution : > 50
Method : On basis of test data.: DIN 38412/part 3 (TTC)

Information on ingredients

1-BUTOXY-2-PROPANOL:

EC50 (3h) > 1000 mg/L

(Source: ECHA database «Registered substances»)

SODIUM-ALPHA-OLEFIN SULFONATE:

EC50 (3h) 230 mg/L; NOEC (3h) 40 mg/L

(Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

NOEC (18h) 24 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.

12.2 Persistence and degradability

Biodegradation

Preparation related information

Readily biodegradable (according to OECD criteria).

Degradation rate : ~ 82,9%
 Test duration : 28 d
 Analytical method : BOD (% of COD).
 Method : On basis of test data.: OECD 301F
 Type : Aerobic biological treatment

Information on ingredients

1-BUTOXY-2-PROPANOL:

90% (10d) OECD 301 E
 Readily biodegradable (according to OECD criteria).
 (Source: ECHA database «Registered substances»)

SODIUM-ALPHA-OLEFIN SULFONATE:

80% (28d) OECD 301 B
 Readily biodegradable (according to OECD criteria).
 (Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

90% 28d) OECD 301 B
 Readily biodegradable (according to OECD criteria).
 (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 oxygen demand (COD)

~ 633000 mg *O ₂ /L	► Concentration	: 100%	Method	DIN EN 38409-H41-1
~ 6330 mg *O ₂ /L	► Concentration	: 1%	Method	DIN EN 38409-H41-1

Biochemical oxygen demand

~ 225000 mg *O ₂ /L	► Concentration	: 100%	Method	DIN EN 1899-1	Test duration	5 d
~ 2250 mg *O ₂ /L	► Concentration	: 1%	Method	DIN EN 1899-1	Test duration	5 d

BOD₅/COD ratio

36%

12.3 Bioaccumulative potential

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-ALPHA-OLEFIN SULFONATE:

BCF 70,8
 No indication of bioaccumulation potential.
 (Source: ECHA database «Registered substances»)

ALKYLDIMETHYLAMIN-N-OXIDE:

log Kow < 3
 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)

12.4 Mobility in soil

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

12.5 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-ALPHA-OLEFIN SULFONATE:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

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-ALPHA-OLEFIN SULFONATE:

This substance does not have endocrine disrupting properties with respect to humans.
(Source: Safety Data Sheet)

ALKYLDIMETHYLAMIN-N-OXIDE:

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 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

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 (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals
not applicable

Directive 96/59/EC (PCB-guideline)
not applicable

Regulation (EC) No. 648/2004 [Detergents regulation]

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on 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. 10

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 (12. BlmschV)**

This product is not classified according to StörfallV.

Water hazard class

obviously hazardous to water (WGK 2)

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 1% application solution of VAPUREX LV 1% F-10 #7141:

The information in this safety data sheet only applies to the unchanged product in the delivery condition. An application solution prepared therefrom by diluting it with water as recommended usually has significantly fewer hazardous features due to the dilution principle and can even be unclassified. See also the environmental data sheet provided by us.

Full text of Hazard- and EU Hazard-statements

H302	Harmful if swallowed or if inhaled.
H315	Causes skin and eye irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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