



**MOUSSEAL®-ATC F-0 #2045**

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

**1.1 Product identifier**

**MOUSSEAL®-ATC F-0 #2045**

**UFI: PKN5-708U-N00P-KN72**

**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

Telephone +49 (0)551/19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]

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

**2.2 Label elements**

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

Hazard pictograms



Signal word

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

Hazard statements

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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.

Classification procedure

Calculation method.

**2.3 Other hazards**

Endocrine disrupting properties

**MOUSSEAL®-ATC F-0 #2045**Preparation related information

There are no data available on the mixture itself.

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

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

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

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

**FLUOROSURFACTANT:**

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

**Results of PBT and vPvB assessment**Preparation related information

There are no data available on the mixture itself.

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

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

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

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

**FLUOROSURFACTANT:**

This substance does not meet the PBT/vPvB criteria of 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!

The product contains fluorosurfactants that are not completely biodegradable.

**SECTION 3: Composition / information on ingredients****3.1 Substances**

not applicable

**3.2 Mixtures****2-(2-BUTOXYETHOXY)ETHANOL**

CAS No.: 112-34-5

EC No.: 203-961-6

REACH No.: 01-2119475104-44-XXXX

Concentration: 1 - 5%

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

**1,2-BENZISOTHIAZOL-3(2H)-ON**

CAS No.: 2634-33-5

EC No.: 220-120-9

REACH No.: 01-2120761540-60-XXXX

Concentration: 0,1 - 1%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS05-GHS07; Acute Tox. 4-Skin Irrit. 2-Eye Dam. 1-Skin Sens. 1-Aquatic Acute 1; H302-H315-H317-H318-H400

**FLUOROSURFACTANT**

Concentration: 0,1 - 1%

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

**WATER**

CAS No.: 7732-18-5

Concentration: 93 - 98,8%

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

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

Full text of H- and EUH-statements: see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

Wash thoroughly the body (shower or bath).

Observe risk of aspiration if vomiting occurs.

When in doubt or if symptoms are observed, get medical advice.

**Following inhalation**

Provide fresh air.

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

**In case of skin contact**

Wash immediately with: Water

**After eye contact**

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

**Following ingestion**

Do NOT induce vomiting.

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

Dizziness

Nausea

Gastrointestinal complaints

**4.3 Indication of any immediate medical attention and special treatment needed**

If unconscious but breathing normally, place in recovery position and seek medical advice.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

The product itself does not burn.

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

**5.2 Special hazards arising from the substance or mixture**

The product itself does not burn.

**5.3 Advice for firefighters**

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

**SECTION 6: Accidental release measures**

**MOUSSEAL®-ATC F-0 #2045****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

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Polyethylene (PE)  
Unsuitable container/equipment material  
Aluminium  
Light metal  
Copper  
Zinc  
Alloy, containing copper  
Alloy, contains light metal  
Iron.  
Steel

**Hints on joint storage**

Storage class

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

**7.3 Specific end use(s)**

Fire-extinguishing foams based on synthetic surfactants

Do not use for cleaning purposes.

**Recommendation**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Substance name:** 2-(2-BUTOXYETHOXY)ETHANOL

CAS No.: 112-34-5

REACH No.: 01-2119475104-44-XXXX

**United Kingdom**

Long-term occupational exposure limit value: 10 ppm; Limit value type (country of origin): TWA (EN)

short-term occupational exposure limit value: 15 ppm; Limit value type (country of origin): STEL (EN)

**European Union**

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

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

**Germany**

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

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

**Ireland**

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

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

**8.2 Exposure controls****Advices on general occupational hygiene**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Avoid contact with skin, eyes and clothes.

Remove contaminated, saturated clothing.

Wash contaminated clothing prior to re-use.

Wash hands before breaks and after work.

Apply skin care products after work.

**Eye/face protection**

Suitable eye protection

Eye glasses with side protection

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goggles  
 Face protection shield  
 Recommended eye protection articles  
 DIN EN 166

**Hand protection**

Suitable gloves type  
 Gloves with long cuffs  
 Suitable material  
 NBR (Nitrile rubber)  
 Butyl caoutchouc (butyl rubber)  
 Breakthrough time  
 120 min.  
 Thickness of the glove material  
 > 0.6 mm  
 Recommended glove articles  
 EN ISO 374  
 Breakthrough times and swelling properties of the material must be taken into consideration.

**Body protection**

Body protection: not required.

**Respiratory protection**

Usually no personal respirative protection necessary.

**Environmental exposure controls**

Store concentrate according to national regulations.  
 Do not let the concentrate get into the environment.  
 If possible, hold back the application solution and dispose of after use.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

a) Physical state	:	Liquid			
b) Colour	:	colourless / yellow			
c) Odour	:	Glycol, Ether, Surfactant			
d) Melting point/freezing point	:	0°C		EN 1568:2018	
e) Melting point/freezing point	:	> 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	:	8,5 - 9,5 DIN 19268	
l) Viscosity	at °C	20	:	< 15 mm <sup>2</sup> /s DIN 51562	Newton
	at °C	0	:	< 50 mm <sup>2</sup> /s DIN 51562	Newton
m) Solubility	:	Water: completely miscible		OECD 105	
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	:	0,980 - 1,020 g/ml DIN 12791	

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- |                             |   |                   |
|-----------------------------|---|-------------------|
| 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  | : | ~ 1000 µS/cm   |
| h) Corrosiveness                                       | : | Skin corrosion/irritation: none<br>Serious eye damage/irritation: none |
| 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

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Acid halides

**10.2 Chemical stability**

No special measures are necessary.

**10.3 Possibility of hazardous reactions**

No special measures are necessary.

**10.4 Conditions to avoid**

Do not store at temperatures above: +50°C

**10.5 Incompatible materials**

See section 7. No additional measures necessary.

**10.6 Hazardous decomposition products**

Pyrolysis products, containing fluorine

Fluorinated hydrocarbons

Hydrofluoric acid

**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 &gt; 2000 mg/kg The acute oral toxicity is corresponding to GHS-category 5.

Species Rat

Method Calculation method.

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

LD50 (14d) 5530 mg/kg ==&gt;

The acute oral toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

No data available

Harmful if swallowed.

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

LD50 (14d) 3129 mg/kg ==&gt;

The acute oral toxicity is corresponding to GHS-category 5.

(Source: Safety Data Sheet)

**Acute dermal toxicity**Preparation related information

There are no data available on the mixture itself.

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

LD50 (1d) 2764 mg/kg ==&gt;

The acute dermal toxicity is corresponding to GHS-category 5.

(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

No data available

The acute dermal toxicity is corresponding to GHS-category 5.





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(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

LD50 (14d) > 5000 mg/kg ==>

The acute dermal toxicity is corresponding to GHS-category 5.

(Source: Safety Data Sheet)

**Acute inhalation toxicity**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

**2-(2-BUTOXYETHOXY)ETHANOL:**

NOEC (2h) 29 ppm ==>

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

(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

No data available

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

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

LC50 (4h) > 5,6 mg/L ==>

The acute inhalation toxicity related to dust/mist is corresponding to GHS-category 5.

(Source: Safety Data Sheet)

**b) Skin corrosion/irritation**

Preparation related information

non-irritant.

Species ---

Method Calculation method.

Information on ingredients

**2-(2-BUTOXYETHOXY)ETHANOL:**

non-irritant.

(Source: Safety Data Sheet)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

Causes skin irritation.

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

non-irritant.

(Source: Safety Data Sheet)

**c) Serious eye damage/irritation**

Preparation related information

non-irritant.

Species ---

Method Calculation method.

Information on ingredients

**2-(2-BUTOXYETHOXY)ETHANOL:**

Causes serious eye irritation.

(Source: Safety Data Sheet)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

Causes serious eye damage.

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

non-irritant.

(Source: Safety Data Sheet)



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**d) Respiratory or skin sensitisation**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*2-(2-BUTOXYETHOXY)ETHANOL:*

not sensitising.

(Source: Safety Data Sheet)

*1,2-BENZISOTHIAZOL-3(2H)-ON:*

not sensitising.

(Source: Safety Data Sheet)

*FLUOROSURFACTANT:*

not sensitising.

(Source: Safety Data Sheet)

**e) Germ cell mutagenicity**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*2-(2-BUTOXYETHOXY)ETHANOL:*

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

*1,2-BENZISOTHIAZOL-3(2H)-ON:*

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

*FLUOROSURFACTANT:*

No indications of human germ cell mutagenicity exist.

(Source: Safety Data Sheet)

**f) Carcinogenicity**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*2-(2-BUTOXYETHOXY)ETHANOL:*

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

*1,2-BENZISOTHIAZOL-3(2H)-ON:*

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

*FLUOROSURFACTANT:*

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

**g) Reproductive toxicity**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*2-(2-BUTOXYETHOXY)ETHANOL:*

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

*1,2-BENZISOTHIAZOL-3(2H)-ON:*

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

*FLUOROSURFACTANT:*

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)



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**h) STOT-single exposure**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*2-(2-BUTOXYETHOXY)ETHANOL:*

No known symptoms to date.

(Source: Safety Data Sheet)

*1,2-BENZISOTHIAZOL-3(2H)-ON:*

No known symptoms to date.

(Source: Safety Data Sheet)

*FLUOROSURFACTANT:*

No known symptoms to date.

(Source: Safety Data Sheet)

**i) STOT-repeated exposure**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*2-(2-BUTOXYETHOXY)ETHANOL:*

No known symptoms to date.

(Source: Safety Data Sheet)

*1,2-BENZISOTHIAZOL-3(2H)-ON:*

No known symptoms to date.

(Source: Safety Data Sheet)

*FLUOROSURFACTANT:*

No known symptoms to date.

(Source: Safety Data Sheet)

**j) Aspiration hazard**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*2-(2-BUTOXYETHOXY)ETHANOL:*

No known symptoms to date.

(Source: Safety Data Sheet)

*1,2-BENZISOTHIAZOL-3(2H)-ON:*

No known symptoms to date.

(Source: Safety Data Sheet)

*FLUOROSURFACTANT:*

No known symptoms to date.

(Source: Safety Data Sheet)

**11.2 Information on other hazards**

**Endocrine disrupting properties**

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

*2-(2-BUTOXYETHOXY)ETHANOL:*

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

(Source: Safety Data Sheet)

*1,2-BENZISOTHIAZOL-3(2H)-ON:*

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

(Source: Safety Data Sheet)

*FLUOROSURFACTANT:*

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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 : ~ 5000 mg/L  
Exposure time : 48 h  
Species : *Leuciscus idus* (golden orfe)  
Method : On basis of test data.: DIN 38412 / part 15

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

LC50 (96hr) 1300mg/L  
(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

No data available  
(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

LC50 (96h) > 10 mg/L  
(Source: Safety Data Sheet)

**Acute (short-term) toxicity to crustacea**Preparation related information

Effective dose EC50 : ~ 5500 mg/L  
Exposure time : 24 h  
Species : *Daphnia magna* (Big water flea)  
Method : On basis of test data.: DIN 38412 / part 11

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

EC50 (48hr) > 1101 mg/L  
(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

No data available  
(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

LC50 (48h) > 10 mg/L  
(Source: Safety Data Sheet)

**Acute (short-term) toxicity to algae and cyanobacteria**Preparation related information

Effective dose EC50 : ~ 5000 mg/L  
Exposure time : 72 h  
Species : *Scenedesmus subspicatus*  
Method : On basis of test data.: DIN 38412 / part 9

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

EC50 (72h) 1 101 mg/L  
(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

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No data available

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

EC50 (72h) &gt; 1 mg/L

(Source: Safety Data Sheet)

**Effects in sewage plants**Preparation related information

Analytical method : Respiratory inhibition of municipal activated sludge.

100000 mg/L ► Concentration : 100% Dilution : &gt; 10

Method : On basis of test data.: DIN 38412/part 3 (TTC)

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

NOEC (0,5h) 1995 mg/L

(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

No data available

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

NOEC (3h) &gt; 100 mg/L

(Source: Safety Data Sheet)

The product contains fluorosurfactants that are not completely biodegradable.

Some of the components are poorly biodegradable.

**Remark**

Observe local regulations concerning effluent treatment.

Special pre-treatments are necessary.

**12.2 Persistence and degradability****Biodegradation**Preparation related information

Readily biodegradable (according to OECD criteria).

Additional information : The product contains fluorosurfactants that are not completely biodegradable.

Degradation rate : ~ 95%

Test duration : 26 d

Analytical method : BOD (% of COD).

Method : On basis of test data.: OECD 301F

Type : Aerobic biological treatment

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

92% (28d) OECD 301 E

Readily biodegradable (according to OECD criteria).

(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

No data available

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

No data available

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

**Chemical oxygen demand (COD)**

~ 73000 mg\*O2/L ► Concentration : 100% Method : DIN EN 38409-H41-1

**MOUSSEAL®-ATC F-0 #2045****Biochemical oxygen demand**

~ 26000 mg\*O<sub>2</sub>/L ► Concentration : 100% Method DIN EN 1899-1 Test duration 5 d

**BOD<sub>5</sub>/COD ratio**

36%

**12.3 Bioaccumulative potential**Preparation related information

There are no data available on the mixture itself.

Information on ingredients**2-(2-BUTOXYETHOXY)ETHANOL:**

log Kow &lt; 3

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

No data available

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

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

log Pow 0

No indication of bioaccumulation potential.

(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**2-(2-BUTOXYETHOXY)ETHANOL:**

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

(Source: Safety Data Sheet)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

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

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

This substance does not meet the PBT/vPvB criteria of 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**2-(2-BUTOXYETHOXY)ETHANOL:**

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

(Source: Safety Data Sheet)

**1,2-BENZISOTHIAZOL-3(2H)-ON:**

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

(Source: Safety Data Sheet)

**FLUOROSURFACTANT:**

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

(Source: Safety Data Sheet)



**12.7 Other adverse effects**

The product contains fluorosurfactants that are not completely biodegradable.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Dispose of waste according to applicable legislation.

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

**Waste code product**

- 16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
- 1610 aqueous liquid wastes destined for off-site treatment
- 161001\* aqueous liquid 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

**MOUSSEAL®-ATC F-0 #2045****14.7 Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.

not applicable

Regulation (EC) No. 304/2003 of the European parliament and of the council concerning the export and import of dangerous chemicals

not applicable

Directive 96/59/EC (PCB-guideline)

not applicable

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

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

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Volatile organic compounds (VOC) content in percent by weight:: max. 5

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases

not applicable

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

The product fulfills all requirements and limit values of this EU regulation.

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

The product fulfills all requirements and limit values of this EU regulation.

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

The product fulfills all requirements and limit values of this EU regulation.

**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.



**MOUSSEAL®-ATC F-0 #2045****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](http://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.

**Relevant R-, H- and EUH-phrases (Number and full text)**

H302	Harmful if swallowed or if inhaled.
H315	Causes skin and eye irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.