



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

FOAMOUSSE®-FP/AR 3/3 F-15 #5321



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

1.1 Product identifier

FOAMOUSSE®-FP/AR 3/3 F-15 #5321

UFI: 6UQF-A0FC-100X-M07E

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Fire-extinguishing foam based on protein hydrolysate and fluorinated surfactants

1.3 Details of the supplier of the safety data sheet

Manufacturer Fabrik chemischer Präparate von Dr. R. Sthamer GmbH & Co. KG

StreetLiebigstraße 5Postal code/CityD-22113 HamburgCountryDeutschlandTelephone+49 (0)40/736168-0Telefax+49 (0)40/736168-60E-mail (competent person)labor@sthamer.comWebsitehttp://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]

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 --- ---

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].

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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

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

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.

(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

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.

(2-METHOXYMETHYLOXY)PROPANOL:

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!

The product contains fluorosurfactants that are not completely biodegradable.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

not applicable

3.2 **Mixtures**

IRON-(II)-SULFATE-7-HYDRATE

CAS No.: 7782-63-0 EC No.: 231-753-5

REACH No.: 01-2119513203-57-XXXX

Concentration: 1 - 5%

Classification according to Regulation (EC) No 1272/2008 [CLP]: GHS07; Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2; H302-H315-H319

FLUOROSURFACTANT

Concentration: 0,1 - 1%

The concentration of the raw material is below the limit value above which a substance contained in a mixture must be listed (Regulation (EU) 2020/878, Section 3.2.1, Table 1.1). The listing is voluntary as part of the customer information.

(2-METHOXYMETHYLOXY)PROPANOL

CAS No.: 34590-94-8 EC No.: 252-104-2

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REACH No.: 01-2119450011-60-XXXX

Concentration: 5 - 10%

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

Substance with a community workplace exposure limit

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES

Concentration: 50 - 60%

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

WATER

CAS No.: 7732-18-5 Concentration: 24 - 43,9%

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

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.

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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

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

Eve 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.

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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)

Iron.

Steel

Unsuitable container/equipment material

Aluminium

Light metal

Copper

Zinc

Alloy, containing copper

Alloy, contains light metal

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 foam based on protein hydrolysate and fluorinated 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-METHOXYMETHYLOXY)PROPANOL

CAS No.: 34590-94-8

REACH No.: 01-2119450011-60-XXXX

United Kingdom

Long-term occupational exposure limit value: 50 ppm; Limit value type (country of origin): TWA (EN) short-term occupational exposure limit value: ---; Limit value type (country of origin): STEL (EN)

European Union

Long-term occupational exposure limit value: 50 ppm; Limit value type (country of origin): TWA (EC) short-term occupational exposure limit value: ---; Limit value type (country of origin): STEL (EC)

Long-term occupational exposure limit value: 50 ppm; Limit value type (country of origin); AGW (DE) short-term occupational exposure limit value: ---; Limit value type (country of origin): Peak (DE)

Long-term occupational exposure limit value: 50 ppm; Limit value type (country of origin): TWA (IE) short-term occupational exposure limit value: ---; Limit value type (country of origin): STEL (IE)

8.2 **Exposure controls**

Advices on general occupational hygiene

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

Avoid contact with skin, eyes and clothes.

Remove contaminated, saturated clothing.

Wash contaminated clothing prior to re-use.

Wash hands before breaks and after work.

Apply skin care products after work.

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Eye/face protection

Suitable eye protection

Eye glasses with side protection

goggles

Face protection shield

Recommended eye protection articles

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

Information on basic physical and chemical properties 9.1

a) Physical state Liquid

b) Colour dark brown black

c) Odour earthy

d) Melting point/freezing point -15°C EN 1568:2018

Boiling point or initial boiling point and boiling

> 100°C DIN 51751 range

Flammability not applicable

Lower and upper explosion limit/flammability

No data available limit

Flash point No flash point up to 100 °C.

Ignition temperature in °C : not applicable **Decomposition temperature** : No data available

at °C k) pH 20 : 6.5 - 8.0 **DIN 19268**

Viscosity at °C 20 < 40 mm²/s DIN 51562 : Newton at °C : < 200 mm²/s DIN 51562 Newton

m) Solubility Water: completely miscible **OECD 105**

Partition coefficient n-octanol/water (log

value) not applicable

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o) Vapour pressure : No data available

p) Density and/or relative

density at °C 20 : 1,150 - 1,190 g/ml DIN 12791

q) Relative vapour density
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 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 Pyrophoric liquids not applicable j) Pyrophoric solids not applicable k) Self-heating substances and mixtures not applicable

I) Substances or mixtures which, in contact with

water, emit flammable gases
m) Oxidising liquids
n) Oxidizing solids
not applicable
not applicable
not applicable
not applicable
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 : > 20000 µS/cm

h) Corrosiveness : Skin corrosion/irritation: none

Serious eye damage/irritation: none

i) gas group
j) Redox potential
k) radical formation potential
l) photocatalytic properties
i not applicable
i not applicable
i not applicable
i 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

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

Test was carried out with a similar mixture.

a) Acute toxicity

Acute oral toxicity

Preparation related information

LD50 > 2000 mg/kgThe acute oral toxicity is corresponding to GHS-category 5.

Species Rat

Method Calculation method.

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

LD50 (14d) 500 mg/kg ==>

Harmful if swallowed.

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

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

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

(Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:

LC50 (14d) >5000 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

IRON-(II)-SULFATE-7-HYDRATE:

LD50 (14d) > 2000 mg/kg ==>

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

(Source: ECHA database «Registered substances»)

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FLUOROSURFACTANT:

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

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

(Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:

LC50 (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

IRON-(II)-SULFATE-7-HYDRATE:

LC50 (3h) > 1100 mg/m3 ==>

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

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

No data available

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

(Source: Safety Data Sheet) (2-METHOXYMETHYLOXY)PROPANOL:

NOEC (7h) 275 ppm ==>

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

(Source: ECHA database «Registered substances»)

INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

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

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

b) Skin corrosion/irritation

Preparation related information

non-irritant.

Species

Method Calculation method.

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

Causes skin irritation.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

non-irritant.

(Source: Safety Data Sheet)

(2-METHOXYMETHYLOXY)PROPANOL:

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

non-irritant.

Species

Method Calculation method.

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Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

Causes serious eye irritation.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

Causes serious eye irritation.

(Source: Safety Data Sheet)

(2-METHOXYMETHYLOXY)PROPANOL:

non-irritant.

(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

IRON-(II)-SULFATE-7-HYDRATE:

not sensitising.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

not sensitisina.

(Source: Safety Data Sheet)

(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

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)

(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No indication of human carcinogenicity.

(Source: Safety Data Sheet)

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(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No indications of human reproductive toxicity exist.

(Source: Safety Data Sheet)

(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

No known symptoms to date.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No known symptoms to date.

(Source: Safety Data Sheet)

(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

No known symptoms to date.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No known symptoms to date.

(Source: Safety Data Sheet)

(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

No known symptoms to date.

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

No known symptoms to date.

(Source: Safety Data Sheet)

(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

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)

(2-METHOXYMETHYLOXY)PROPANOL:

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

<u>Preparation related information</u>

Effective dose LC50 : > 1000* mg/L

Exposure time : 48 h

Species : Leuciscus idus (golden orfe)

Method : Bridging principle "Substantially similar mixtures".

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

LC50 (96h) > 16,6 mg/L

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

LC50 (96h) > 35 mg/L

(Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:

LC50 (96h) > 10000 mg/L

(Source: ECHA database «Registered substances»)



INGREDIENTS NOT CLASSIFIED AS HAZARDOUS SUBSTANCES:

No classification in the above-mentioned hazard class

(Source: Safety Data Sheet)

Acute (short-term) toxicity to aquatic invertebrates

Preparation related information

Effective dose FC50 : > 1000* mg/L

Exposure time : 24 h

Species : Daphnia magna (Big water flea)

Method : Bridging principle "Substantially similar mixtures".

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

EC50 (48h) > 1,29 mg/L

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

EC50 (48h) 144 mg/L

(Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:

EC50 (48h) 1919 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 : > 100 < 1000* mg/L

Exposure time : 72 h

Species : Scenedesmus subspicatus

Method : Bridging principle "Substantially similar mixtures".

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

No data available

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

EC50 (72h) 3,26 mg/L

(Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:

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

▶ Concentration : 100% Dilution : > 100* 10000* mg/L : 3% Dilution 333300* mg/L ▶ Concentration : > 3*

: Bridging principle "Substantially similar mixtures".

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

No data available

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

EC50 (3h) >1000 mg/L

(Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:

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NOEC (3h) 4168 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)

The product contains fluorosurfactants that are not completely biodegradable.

Some of the components are poorly biodegradable.

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.

: > 70%* Degradation rate Test duration : 28 d

Analytical method : BOD (% of COD).

Method : Bridging principle "Substantially similar mixtures".

: Aerobic biological treatment Type

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

No data available not applicable

(Source: Safety Data Sheet)

FLUOROSURFACTANT:

0% (28d) OECD 301 F

Not readily biodegradable (according to OECD criteria) (Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:

79% (28d) OECD 301 F

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 oyxgen demand (COD)

<1500000* mg *O2/L ► Concentration Method DIN EN 38409-H41-1 : 100% < 45000* mg *O2/L ► Concentration : 3% Method DIN EN 38409-H41-1

Biochemical oxygen demand

< 600000* mg *O2/L ► Concentration : 100% DIN EN 1899-1 Method Test duration 5 d < 18000* mg *O2/L ► Concentration : 3% Method DIN EN 1899-1 Test duration 5 d

BOD5/COD ratio

40%

12.3 Bioaccumulative potential

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

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



Preparation related information

There are no data available on the mixture itself.

Information on ingredients

IRON-(II)-SULFATE-7-HYDRATE:

BCF < 20

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

FLUOROSURFACTANT:

BCF < 5.1

No indication of bioaccumulation potential.

(Source: ECHA database «Registered substances»)

(2-METHOXYMETHYLOXY)PROPANOL:

log Kow < 1

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

IRON-(II)-SULFATE-7-HYDRATE:

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)

(2-METHOXYMETHYLOXY)PROPANOL:

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

IRON-(II)-SULFATE-7-HYDRATE:

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)

(2-METHOXYMETHYLOXY)PROPANOL:

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

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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

WASTES NOT OTHERWISE SPECIFIED IN THE LIST

1603 off-specification batches and unused products

160306 organic wastes other than those mentioned in 16 03 05

Waste code packaging

WASTE PACKAGING: ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT

OTHERWISE SPECIFIED

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

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

Marine pollutant : No

14.6 Special precautions for user

14.7 Maritime transport in bulk according to IMO instruments

not applicable

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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

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 fulfills all requirements and limit values of this EU regulation.

The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the manufacturer for the time before that.

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

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

The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the manufacturer for the time before that.

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

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

The validity of this statement refers to the assessment period from January 1st, 2021. Separate information must be obtained from the manufacturer for the time before that.

National regulations

Störfallverordnung (12. BlmschV)

This product is not classified according to StörfallV.

Water hazard class

slightly hazardous to water (WGK 1)

Self-classification according to AwSV (mixture).

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

not applicable

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

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technical committee of BMU/LAMA. The details in this safety data sheet are based on today's stand of our knowledge and is applicable to the product with regard to appropriate safety precautions. They do not represent any guarantee of the properties of the product and do not establish any legal relationship.

Please refer to our internet website for more information. www.sthamer.com

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Classification for the 3% application solution of FOAMOUSSE-FP/AR 3/3 F-15 #5321:

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.
H319	Causes serious eve irritation.

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