



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

**Product identifiers**

**FOAMOUSSE® 3% F-15 #5301**

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

Use of the substance/mixture  
fire extinguishing agent

**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
Dept. responsible for information	Dr. Prall, +49 (0)40/736168-31
Emergency telephone number	+49 (0)40/736168-0

**Emergency telephone number**

GLZ-Nord Poisons Centre of the University of Göttingen	
Telephone	+49 (0)551/19240

**SECTION 2: Hazards identification**

**Classification of the substance or mixture**

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

**Label elements**

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



**This mixture is classified as not hazardous according to regulation (EC) 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.
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.

**Other hazards**

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!

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

**Substances**

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**Mixtures****IRON-(II)-SULFATE-7-HYDRATE**

CAS No.: 7782-63-0

EC No.: 231-753-5

REACH No.: 01-2119513203-57-XXXX

Concentration: &lt; 5%

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

**AMMONIUMCHLORIDE**

CAS No.: 12125-02-9

EC No.: 235-186-4

REACH No.: 01-2119487950-27-XXXX

Concentration: &lt; 5%

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

Full text of R-, H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures****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.

**After 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.

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

Drowsiness

Nausea

Gastrointestinal complaints

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

If unconscious place in recovery position and seek medical advice.

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

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



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)  
**FOAMOUSSE® 3% F-15 #5301**

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

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

The product itself does not burn.

**Advice for firefighters**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation.

**Environmental precautions**

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

**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

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Avoid  
Skin contact  
Eye contact  
Wear personal protection equipment (see chapter 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.  
See chapter 8.

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.

**Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Do not store at temperatures above: +50°C

**Requirements for storage rooms and vessels**

Suitable container/equipment material

Refined steel

Polyethylene (PE)

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

**Specific end use(s)**

Concrete admixture based on protein hydrolysates

Do not use for cleaning purposes.

**Recommendation**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection****Control parameters**

Substance name: ---

CAS No.: ---

EC No.: ---

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

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

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

Avoid contact with skin, eyes and clothes.

Remove contaminated, saturated clothing.

Wash contaminated clothing prior to re-use.

Wash hands before breaks and after work.

Apply skin care products after work.

**Eye/face protection**

Suitable eye protection

Eye glasses with side protection

goggles



Face protection shield  
 Recommended eye protection articles  
 DIN EN 166

**Hand protection**

Suitable gloves type  
 Gloves with long cuffs  
 Suitable material  
 NBR (Nitrile rubber)  
 Butyl caoutchouc (butyl rubber)  
 Breakthrough time (maximum wearing time)  
 120 min.  
 Recommended glove articles  
 DIN EN 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 (VAWS).  
 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**

Physical state	:	liquid	
Colour	:	dark brown / black	
pH	at °C 20 :	6,5 - 8,0	DIN 19268
Density	at °C 20 :	1,150 - 1,190 g/ml	DIN 12791
Kinematic viscosity	at °C 20 :	< 30 mm²/s	DIN 51562 Newton
Kinematic viscosity	at °C -15 :	< 200 mm²/s	DIN 51562 Newton
Solidification point	:	-15°C	DIN ISO 3016
Initial boiling point and boiling range	:	> 100°C	DIN 51751
Water solubility (g/L)	:	completely miscible	OECD 105
Flash point	:	No flash point up to 100 °C.	

**Physical hazards**

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

**Other information**

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**SECTION 10: Stability and reactivity**

**Reactivity**

**Materials to avoid**  
 Alkali (lye), concentrated  
 Alkali metals



Acid, concentrated  
Oxidising agent, strong  
Reducing agent, strong  
Acid halides

**Chemical stability**

No special measures are necessary.

**Possibility of hazardous reactions**

No special measures are necessary.

**Conditions to avoid**

Do not store at temperatures above: +50°C

**Incompatible materials**

See section 7. No additional measures necessary.

**Hazardous decomposition products**

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**SECTION 11: Toxicological information**

**Mixture related information**

**Non-human toxicological data**

**Acute oral toxicity**

LD50	> 2000 mg/kg	The acute oral toxicity is corresponding to GHS-category 5.
Species	Rat	
Method	Limit test.	

**Acute dermal toxicity**

The product has not been tested.

**Acute inhalation toxicity**

The product has not been tested.

**Irritant and corrosive effects**

**Skin corrosion/irritation**

Not an irritant.

species	---
Method	The product has not been tested. Test was carried out with a similar preparation/mixture.

**Eye damage/irritation**

Not an irritant.

species	---
Method	The product has not been tested. Test was carried out with a similar preparation/mixture.

**Irritation to respiratory tract**

The product has not been tested.

**Respiratory or skin sensitisation**

The product has not been tested.





**Repeated dose toxicity**

The product has not been tested.

**Carcinogenicity**

The product has not been tested.

**In vivo mutagenicity/genotoxicity**

The product has not been tested.

**Reproductive toxicity**

The product has not been tested.

**SECTION 12: Ecological information**

**Toxicity**

**Acute (short-term) fish toxicity**

Effective dose LC50 : > 1500\* mg/L  
 Exposure time : 48 h  
 Species : Leuciscus idus (golden orfe)  
 Method : DIN 38412 / part 15

**Acute (short-term) toxicity to crustacea**

Effective dose EC50 : ~ 17500 mg/L  
 Exposure time : 24 h  
 Species : Daphnia magna (Big water flea)  
 Method : DIN 38412 / part 11

**Acute (short-term) toxicity to aquatic algae and cyanobacteria**

Effective dose EC50 : ~ 5100 mg/L  
 Exposure time : 72 h  
 Species : Scenedesmus subspicatus  
 Method : DIN 38412 / part 9

**Effects in sewage plants**

Method : Respiratory inhibition of municipal activated sludge.  
 30000 mg/L ► Concentration : 100% Dilution : > 33  
 1000000 mg/L ► Concentration : 3% Dilution : > 1

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

The product may lead to foaming in sewage plants.

**remark**

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

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

**Persistence and degradability**

**Biodegradation**

Readily biodegradable (according to OECD criteria).  
 Degradation rate (%) : ~ 79,2%  
 Test duration : 28 d  
 Analytical method : BOD (% of COD).



Method : OECD 302B/ ISO 9888/ EEC 92/69/V, C.9  
type : Aerobic biological treatment

**Chemical oxygen demand (COD)**

~ 423000 mg\*O2/L ► Concentration : 100% Method DIN EN 38409-H41-1  
~ 12690 mg\*O2/L ► Concentration : 3% Method DIN EN 38409-H41-1

**Biochemical oxygen demand (BOD)**

~ 123000 mg\*O2/L ► Concentration : 100% Method DIN EN 1899-1 Test duration 5 d  
~ 3690 mg\*O2/L ► Concentration : 3% Method DIN EN 1899-1 Test duration 5 d

**BOD5/COD ratio**  
29%

**Bioaccumulative potential**

IRON-(II)-SULFATE-7-HYDRATE: No indication of bioaccumulation potential.  
AMMONIUMCHLORIDE: No indication of bioaccumulation potential.

**Mobility in soil**

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

**Results of PBT and vPvB assessment**

IRON-(II)-SULFATE-7-HYDRATE: This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.  
AMMONIUMCHLORIDE: This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**Other adverse effects**

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**SECTION 13: Disposal considerations**

**Waste treatment methods**

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".  
Dispose of waste according to applicable legislation.

**List of proposed waste codes/waste designations in accordance with EWC**

**Waste code product**

16 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**

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.  
Dispose according to legislation.

**SECTION 14: Transport information**





<b>UN number</b>	none
<b>UN proper shipping name</b>	not applicable
<b>Transport hazard class(es)</b>	<p>Land transport (ADR/RID) No dangerous good in sense of these transport regulations.</p> <p>Inland waterway craft (ADN) No dangerous good in sense of these transport regulations.</p> <p>Sea transport (IMDG) No dangerous good in sense of these transport regulations.</p> <p>Air transport (ICAO-TI / IATA-DGR) No dangerous good in sense of these transport regulations.</p>
<b>Packing group</b>	not applicable
<b>Environmental hazards</b>	<p>none</p> <p>Marine pollutant : No</p>
<b>Special precautions for user</b>	none
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	not applicable

## SECTION 15: Regulatory information

### 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 surfactants contained in this preparation comply 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. 0

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

not applicable

**National regulations****Störfallverordnung**

Not subject to StörfallVO.

**Water hazard class (WGK)**

slightly hazardous to water (WGK 1)

Classification according to AwSV, §11 (KBwS: 1953, <https://webrigoletto.uba.de/rigoletto>)**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 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.
H315	Causes skin irritation.
H319	Causes serious eye irritation.