

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Identification of the substance or preparation** : FETTEX

**Use of the substance/preparation** : Fire Extinguishing Agent For Class F Fires

**Company/undertaking identification** : Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG  
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### 2. Hazards Identification

**Particular Hazards for Men and Environment** :

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!

### 3. Composition/Information on Ingredients

**Chemical Charakterisation** : Fire extinguishing agent based on potassium salts

**Contains** : 

Chemical Designation	CAS-No.	Content	Classification	R-Phrases
For the wording of the R-phrases see Paragraph 16				

### 4. First Aid Measures

**Eye Contact** : Rinse thoroughly with running water. Seek medical advice if symptoms persist. Show this material safety data sheet.

**Skin Contact** : Rinse with water.

**Ingestion** : Seek medical advice. Do not induce vomiting (possible risk of suffocation due to formation of foam). Show this material safety data sheet.

**Inhalation** : Move away from radius of action. Seek medical advice if symptoms occur.

### 5. Fire-Fighting Measures

Not inflammable. The product is used as a fire extinguishing agent.

### 6. Accidental Release Measures

**Personal precautions** : Supply ventilation in enclosed spaces. Avoid eye and skin contact. See also heading 8 of this MSDS.

**Environmental precautions** : Avoid if possible penetration of aqueous systems and ground.

**Methods for cleaning up** : Absorb with liquid-binding material (sand, sawdust or universal binder). See also heading 13 of this MSDS.

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according to 1907/2006/EG annex II (REACH-regulation)  
**FETTEX**

**7. Handling and Storage****Information for**

- safe handling : Keep container closed  
- explosion and fire protection : Not applicable.

**Requirements to be met by store rooms and containers**

: The national regulations for products classified as water hazard class 1 have to be obeyed. Tanks made from high-grade steel, glass fibre reinforced polyester or polyethylene are suitable for the storage.

**Information on combined storage**

: Storage class (LGK): 12 (non-burning liquid)

**Further information on storage conditions**

: Do not store above +50°C for longer periods.

**8. Exposure Controls/Personal Protection**

Exposure limit values	CAS No.	Chemical Designation	Type	Value	Unit

**Exposure controls****Occupational exposure controls**

**Respiratory Protection** : Not required upon appropriate use.

**Hand Protection**

: Suitable protection may be provided by using chemical resistant gloves made from the following materials: nitrile or butyl rubber with at least 0.4 mm thickness (according to EN 374, Part 3: Level 6 => 480 min.). Always seek advice from glove suppliers. The durability of the recommended protective gloves can be shorter than the permeation times found in the EN 374 due to different influences (e.g. temperature).

**Eye Protection**

: Use safety goggles.

**Skin Protection**

: Not required upon appropriate use.

**General protective and hygienic measures**

: Remove contaminated clothing. Keep away from food and beverages. Wash hands before breaks and after work.

**Environmental exposure controls**

: Store concentrate according to national regulations (VAWS).  
Do not let the concentrate get into the environment.  
If possible, hold back the used premixed solution and dispose of according to national regulations.

**9. Physical and Chemical Properties****General Information**

- Appearance** : Liquid  
**Colour** : colorless  
**Odour** : specific

**Important health, safety and environmental information**

			Value	Unit	Method
pH-Value	at	20°C	8,0 - 9,0		DIN EN 1262:1996
Density	at	20°C	appr. 1,275 - 1,295	g/cm <sup>3</sup>	DIN EN ISO 3675
Viscosity	at	20°C	max. 10	mm <sup>2</sup> /sec	DIN 51562
Viscosity	at	-25°C	max. 50	mm <sup>2</sup> /sec	DIN 51562
Pour Point			appr. -25 (-13)	°C (°F)	DIN ISO 3016
Boiling Point/Range			appr. 100 (212)	°C (°F)	
Flashpoint			> 100 (212)	°C (°F)	DIN EN 22719
Flammability			None		
Explosive properties			The product has no explosive properties		
Oxidising properties			None		
Water Solubility			: Unlimited		

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**10. Stability and Reactivity**

**Conditions to avoid** : No decomposition upon appropriate use.  
**Materials to avoid** : Strong oxidizers  
**Hazardous decomposition products** : None known

**11. Toxicological Informations**

**Acute effects**  
**Skin contact** : Classified as non-irritant according to the Dangerous Preparations Directive 1999/45/EU  
**Eye contact** : Classified as non-irritant according to the Dangerous Preparations Directive 1999/45/EU  
**Rat toxicity LD<sub>50</sub> oral** : > 2000 mg/kg (according to Limittest)  
**Sensitisation** : None of the used ingredients shows sensitization potential.  
**Repeated dose toxicity** : None of the used ingredients shows repeated dose toxicity.  
**CMR effects** : None of the used ingredients shows CMR effects.

**12. Ecological Information**

**Ecotoxicity**  
**Influence on sewage systems** : Influence unlikely if induced at concentrations lower than the following (TTC Test, DIN 38412 – L3):  
Solution : < 5.500 mg/l (> 182 times diluted)  
**Fish Toxicity LC<sub>50</sub>** : appr. 245 mg/liter (96h, OECD 203)  
**Algae Toxicity E<sub>r</sub>C<sub>50</sub>** : appr. 720 mg/liter (72 h, OECD 201)  
**Daphnia Toxicity EC<sub>50</sub>** : appr. 5.200 mg/liter (24h, OECD 202)

**Persistence and degradability**  
**Information on elimination** : The product is very well bio-degradable.  
**Approximately 98% in 25 days** (OECD 301 c).  
**COD** : appr. 378.000 mg O<sub>2</sub>/litre (concentrate; DIN EN 38409-H41-1)  
appr. xxx mg O<sub>2</sub>/litre ( solution; DIN EN 38409-H41-1)  
**BOD<sub>5</sub>** : appr. 305.000 mg O<sub>2</sub>/litre (concentrate; DIN EN 1899-1)  
appr. xxx mg O<sub>2</sub>/litre ( solution; DIN EN 1899-1)

**Bioaccumulative potential** : None of the used ingredients shows bioaccumulative potential

**Other adverse effects** : Breathing is not possible whilst submerged in the foam. Take care when spraying people!

**13. Disposal Considerations**

**Product** : Not to be disposed of with household garbage. Dispose of according to local regulations by incineration. Upon appropriate dilution disposal by biological sewage system possible (consult authorities and plant management).

**Uncleaned packaging** : Disposal according to official regulations.

**European Waste Code** : 06  
0603 wastes from the MFSU of salts and their solutions and metallic oxides  
060314 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

**14. Transport Informations**

No hazardous good according to transport regulations (IMDG/GGVSee, ADR/RID and GGVS, ICAO-TI and IATA-DGR).

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**FETTEX****Dr. STHAMER**  
**HAMBURG****15. Regulatory Information**

Designation according to EU directives

**Hazard designation** : No hazardous material

**Hazardous components** :

**R-Phrases** :

**S-Phrases** : 24/25 Avoid contact with skin and eyes

**National regulations**

**Water hazard class (WGK)** : 1 (VwVwS supplement 4/3.3: self classification)

**16. Other Information**

Use the described product only for the specified purpose. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.