

Material Safety Data Sheet

in accordance with Regulation (EC) No.
1907/2006



Trade name: F-Exx 1.5 / 2.0 / 3.0 / 8.0 F
Revised: Oct 01th, 2015

Version: 1.0.8

Page 1 of 5

1. Name of the substance or preparation and company name

Trade name: F-Exx 1.5 / 2.0 / 3.0 / 8.0 F
Product Usage: Fire extinguishing liquid «RC 50» specifically applicable for fat fires
Contents: Wet chemical agent containing aqueous alkaline salts, designed for extinguishing cooking oils and fat fires without gaseous blowing agents.
Manufacturer/Supplier: Tectro SMT GmbH
Thrasoltstr. 46
D-55439 Saarburg
Germany
Phone: +49 / 6581 / 912-0
Fax: +49 / 6581 / 912-410
Contact: feuerloescher@tectro.de
Emergency information:
Phone: +31 / (0)30 – 274 8888, only for the doctor.
National Poisons Information Centre Utrecht, The Netherlands

2. Potential Hazards

Within the present knowledge of the supplier, this preparation does not contain any hazardous ingredients in accordance with Directive 67/548/EC or 1999/45/EC or national regulations.

3. Composition / information about ingredients

3.1 Chemical Characterisation:

Aqueous solution of organic salt components.

3.2 Hazardous Ingredients:

| Substance | CAS no. | EINECS no. | Labelling | R-phrases | % w/w |
|---------------------|---------|------------|-----------|---------------------|--------------|
| 1,2,3-Benzotriazole | 95-14-7 | 202-394-1 | Xn | R20/22, R36, R52/53 | > 0.1 ≤ 0.25 |

Text of the R-phrases: see Chapter 16

4. First aid measures

After inhalation: Remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

After ingestion: If swallowed, wash out mouth with plenty of water. Do not include vomiting. Keep at rest and seek medical advice.

After eye contact: Remove possible contact lenses. Contamination of the eyes must be treated by thorough irrigation with water for 15 minutes, with the eyelid held open. Do not rub or scratch eyes. A Doctor (or eye specialist) should be consulted immediately.

After contact with skin: Rinse with plenty of water for at least 15 minutes. Remove any contaminated clothing or contact lenses.

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1907/2006



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Page 2 of 5

5. Fire-fighting measures

- Extinguishing media:* Product itself is an extinguishing agent. Not combustible. At fires in direct surrounding all extinguishers are allowed.
- Specific risks:* Under certain conditions incomplete combustion may produce hazardous gases.
- Protection of fire-fighters:* For smaller fires, no special measures are required.
For larger fires, firemen have to wear self contained breathing apparatus and complete protective clothing.

6. Measures in case of accidental release

- Personal safety precautions:* See safety regulations under heading 7 and 8.
- Environmental precautions:* Small amounts (as provided in single F-Exx) can be disposed of into the sewer system with other waters.
- Methods to clean up:* Material spillage must be taken up with absorbent material (e.g. sand, silica gel, acid binder, sawdust). Contaminated equipment must be cleaned with water. Observe local disposal regulations.

7. Handling and storage

- Handling:* According to the composition of this product no special precaution rules are necessary. When handling, observe the usual industrial precautionary measures. Use hand gloves, protective clothes and safety glasses.
- Precautions for fire and explosion protection:* No special measures required.
- Storage:* Store in accordance with local regulations. Store in original packaging. Store between -20°C and 60°C in dry, clean and well ventilated locations. Keep away from heat sources. Product is hygroscopic.
VCI storage class: 12.
- Precautions for combined storage:* Prevent contact with other liquids.
- Further information on storage conditions:* None
- Classification according to Industrial Safety Ordinance (BetrSichV):* -

8. Exposure control and personal protective equipment

- Limits of Exposure* not established
- Provide adequate ventilation. Where reasonable practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.
- Personal protective equipment
- General protective and hygienic measures:* The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection:* Suitable respiratory protective device recommended when handling with the extinguishing agent.

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Version: 1.0.8

Page 3 of 5

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|--------------------------|--|
| <i>Hands protection:</i> | Protective gloves of neoprene or butyl rubber should be worn when handling with the extinguishing agent. |
| <i>Eye protection:</i> | Chemical safety glasses when handling with the extinguishing agent. Eye – wash. |

9. Physical and chemical properties

9.1 General information

| | |
|--------------------|----------------------|
| <i>Appearance:</i> | liquid |
| <i>Colour:</i> | Transparent / yellow |
| <i>Odour:</i> | Like acetic acid |

9.2 Safety-related data

| | |
|-----------------------------------|----------------------------------|
| <i>Melting point:</i> | ≤ -26°C |
| <i>Flash point:</i> | None |
| <i>Ignition temperature:</i> | n.a. |
| <i>Auto-ignition temperature:</i> | n.a. |
| <i>Explosion limits:</i> | The product is not explosive. |
| <i>Bulk density:</i> | 1.3 ± 0.025 g/cm ³ |
| <i>Solubility in water:</i> | Completely soluble |
| <i>pH value:</i> | 9.0 ± 1.0 |
| <i>Conductivity (ISO 7888):</i> | 110 ± 20 mS/cm |
| <i>Solid content (ISO 3251):</i> | 50.0 ± 3.0% |
| <i>Thermal decomposition:</i> | pure extinguishing agent > 150°C |

10. Stability and reactivity

| | |
|--|--|
| <i>Stability:</i> | Stable under recommended storage and handling conditions |
| <i>Conditions to avoid:</i> | Container does not hold compressed gas. Store between -18 °C and 50 °C. Protect from heat and sunlight. VCI storage class: 12. |
| <i>Materials to avoid:</i> | Keep away from strong oxidisers, strong alkali and strong acid materials to prevent exothermic reactions. |
| <i>Hazardous decomposition products:</i> | Possible decomposition of pure extinguishing agent by heating into phosphor oxides and ammonia. |

11. Toxicology information

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Toxicity:

Acute oral toxicity: LD₅₀ (rat, orally) > 3250 mg/kg

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Version: 1.0.8

Page 4 of 5

Acute inhalative toxicity: LC₅₀ (rat) -
Acute dermal toxicity: LD₅₀ (rabbit) -
Test skin rabbit: Not irritating; May cause irritation by repeated exposure.
Test eye rabbit: -
No toxicological effects on human exposure are known.

12. Ecology information

The preparation (pure extinguishing agent) has been assessed following the conventional method of the Dangerous Preparation Directive 1999/45/EC and is not classified as dangerous for the environment.

Exotoxicity:

*LC*₅₀: >1000 mg/l (Fish, *Salmo gairdnerii*, 96 hours)

*EC*₅₀: >460 mg/l (*Daphnia*, Magna, 48 hours)

Mode of degradation: Easy biological degradable.

13. Disposal considerations

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by Directive 91/689/EC.

Recommendation: It is recommended to empty the extinguisher by spraying it empty. The extinguishing agent may be poured into the sewage system. The emptied packaging can be put into the trash. Systems that have not been emptied must be disposed of in accordance to official regulations.

Packagings which are not cleaned:

Recommendation: Disposal in accordance with the regulatory requirements.

Recommended cleaning agent: Water, if required with addition of detergents.

14. Transport information

The extinguishing agent product is not classified as dangerous to ADR/RID, IMDG and ICAO/IATA and national regulation.

The extinguisher is not subject to the regulations for dangerous goods nor to the UN 1950.

Customs tariff number: 84241000

15. Regulations

EU Directive: This preparation is not classified as dangerous according Directive 1999/45/EC or Directive 67/548/EC and its amendments.

Hazardous Symbol: None

EU labelling classification: None

R – (risk) phrases: This product is not classified according to EU regulations.

S – (safety) phrases: None

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Page 5 of 5

Caution! Container under pressure (solely fluid pressure, no gas pressure). Protect from sunlight and temperatures over 50°C. Do not force open or burn after usage either. Keep out of reach of children.

Water Hazard Class: slightly harmful to water (WHC 1)

16. Further information

Text of the R-phrases from Chapter 3:

- R 20 Harmful by inhalation.
- R 22 Harmful if swallowed.
- R 36 Irritating to eyes
- R 52 Harmful to aquatic organisms
- R 53 May cause long-term adverse effects in the aquatic environment.
- R 41 Danger of serious eye damage

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties. In all cases, it is the responsibility of user to determine the applicability of such information and recommendations and the suitability of any products for its own particular purpose.

In case of unforeseen effects or properties of the product, the material safety data sheet is not intended as a substitute for the consultation of trained professionals.

Safety data sheet according regulation (EC) No. 1907/2006 of the European parliament and of the council from 18th December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).

Annex

From the raw materials in this recipe, at the moment of drafting this safety data sheet, no chemical safety reports according to regulation (EC) No. 1907/2006 has been registered.