

# Material Safety Data Sheet

In accordance with Regulation (EU) 2015/830  
in accordance with Regulation (EC) No. 1907/2006



Trade name: *F-Exx 8.0 Bio*  
Revised: August 21<sup>th</sup>, 2018

Version: 1.0.10

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## 1. Name of the substance or preparation and company name

### 1.1 Trade name

**F-Exx 8.0 Bio**

### 1.2 Product Usage

Fire extinguishing liquid specifically applicable for fire classification A, B and F; without gaseous blowing agents.

### 1.3 Manufacturer/Supplier

Tecto SMT GmbH  
Thrasoltstr. 46  
D-55439 Saarburg  
Germany  
Phone: +49 / 6581 / 912-0  
Fax: +49 / 6581 / 912-410  
Contact: feuerloescher@tecto.de

### 1.4 Emergency information

Phone: +49 / (0) 551 19240  
National Poisons Information Centre, Göttingen, Germany

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]  
Not classified  
Product is not a pressure vessel within the meaning of the Directives 2014/68/EU.

### 2.2 Label elements

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

### 2.3 Other hazard

Mixture does not meet the criteria for PBT and vPvB acc. To Regulations (EC) No. 1907/2006, Annex XIII. No specific dangers are known. However, the product should be handled with care as generally required for bio-chemicals. Prevent foam entering in respiratory system.

## 3. Composition / information on ingredients

### 3.1 Substance

No information available.

### 3.2 Mixture

Aqueous combination of biocompatible surfactants with low ecotoxicological impact, polyvalent compounds free of phosphates and nitrates, hetero-organic substances, modified glycol derivates as well as natural colours and fragrances.

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## 4. First aid measures

### 4.1 Description of first aid measures

General:	In case of accident or any discomfort always seek medical attention.
After inhalation:	No specific measures. Product does not contain solvents or any other volatile compounds.
After ingestion:	Not toxic. Drink plenty of water. Consult a physician. Do not induce vomiting. Gastric lavage using a defoamer, (e.g. Dimeticon).
After eye contact:	Not irritating for the eyes.
After contact with skin:	harmless in contact with skin.

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

No specific dangers, symptoms and effects, both acute and delayed are known. However, the product should be handled with care as generally required with biochemicals.

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

Recommendation: If swallowed, gastric lavage with the aid of Dimeticon (defoamer).

## 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:	No information available.
Unsuitable extinguishing media:	No information available.

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

Hazardous decomposition Products in case of fire :	Not known
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### 5.3 Advice for firefighters

No information available.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Protective equipment:	Recommendation: Use goggles and rubber gloves; see indications above.
Emergency procedures:	No information available.

#### 6.1.2 For emergency responders

Protective equipment:	No information available.
Emergency procedures:	No information available.

### 6.2 Environmental precautions

The extinguishing liquid contains environmentally friendly and biocompatible surfactants of vegetal origin, which are rapidly, easily and more than 99,9% bio-degradable.

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## 6.3 Methods and material for containment and cleaning

- For containment: Apply liquid-binding and absorbent, standard material and equipment.  
For cleaning up: Aspirate big quantities, flush small quantities with plenty of water.  
Other information: Recommendation: Reuse collected spills for ecological cleaning.

## 7. Handling and storage

### 7.1 Precautions for safe handling

- 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.

### 7.2 Conditions for safe storage, including any incompatibilities

- Storage condition: Container does not hold compressed gas. Protect from heat and sunlight.  
VCI storage class: 12  
Storage temperature: 0°C to +50°C  
Prohibitions on mixed storage: Keep away from food, drink and animal feeding stuff.

### 7.3 Specific end use(s)

No information available.

## 8. Exposure controls/ personal protection

### 8.1 Control parameters

No information available.

### 8.2 Exposure controls

- Avoid contact with skin, eyes and clothing.  
Respiratory protection: In case of inadequate ventilation wear respiratory protection. Particle filter P1  
Hand protection: Chemical resistant PVC gloves (to European standard EN 374 or equivalent)  
Eye protection: Chemical goggles with side protection (EN 166)  
Body protection: Not necessary

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state: Liquid  
Colour: Yellow/ Brown  
Odour: Typical, pleasant  
pH: 7,1 ±0,3 EN DIN 19268  
Freezing Point: -7°C  
Boiling point: >100°C

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Density at 20°C:	1,030g/cm <sup>3</sup> ±0,010g/cm <sup>3</sup> acc. DEV C9
Solubility:	Water: Completely miscible
Viscosity, kinematic at 20°C:	77,96 mm <sup>2</sup> /s
Viscosity, kinematic at 0°C:	105,16mm <sup>2</sup> /s
Viscosity, kinematic at -5°C:	119,29 mm <sup>2</sup> /s

## 10. Stability and reactivity

### 10.1 Chemical stability

The product is stable at normal handling and storage conditions.

### 10.2 Possibility of hazardous reactions

No dangerous reactions known.

## 11. Toxicological information

Skin corrosion/irritation: Not irritating.

Serious eye damage/ irritation: Not damaging.

No further toxicological reactions known.

## 12. Ecological information

### 12.1 Toxicity

I. The application of the extinguishing liquid in nature has harmless exotoxicological effects on bacterial diversity, algae, invertebrates or fish (if 10% dilution rates are not exceeded).

II. For mammals it is not irritating in contact with eyes and skin.

III. The extinguishing liquid is not persistent. It is easily, rapidly and nearly completely biodegradable. It is well tolerated by sewage plant treatment operation. The biochemical composition is similar to naturally occurring biotensides in waters and differs essentially from synthetic or environment friendly detergents.

IV. Extinguishing liquid treated/coated hydrocarbon micelles and deep-frying fat/oil (biocaps) particularly bioavailable, biocompatible and highly biodegradable.

### 12.2 Bioaccumulative potential

The extinguishing liquid does not contain PFOS, PFOA and its derivatives.

The liquid is not bioaccumulative.

## 13. Disposal considerations

### 13.1 Waste treatment methods

The disposal of full, partially emptied and empty fire extinguishers (by the end-consumer) in the residual waste is not a problem.

An up to 3% solution of the extinguishing agent can be added to the sewage system at a ratio of 1:11 with other waters.

EWC code: 07 06 01

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## 14. Transport information

The Fire-Exx 8.0 Bio is not subject to the regulations for dangerous goods and not subject to the UN 1950 and UN 1044.

Customs tariff number: 84241000

Longer transport times below 0 ° C should be avoided, otherwise the extinguishing agent freezes.

## 15. Regulatory information

### 15.1 EU-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

P – phrases: P102 Keep out of reach of children.

P262 Do not get in eyes, on skin or on clothing.

P305 + P315 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if possible. Continue rinsing.

P302 + 352 If on skin: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P314 If feeling unwell: Seek medical advice/attention.

P412 Do not expose to temperatures exceeding 50°C/122°F.

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

## 16. Further information

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.

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.

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Safety data sheet according regulation (EU) 2015/830 and (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).