



Feser One **Cooling Fluid**

Material Safety Data Sheet

Feser One
Toxic Version
Based on Feser Base T
Ethylene-Glycol



MATERIAL SAFETY DATA SHEET - MSDS

TFC MSDS pursuant to 91/155/EWG

Date / renewed on: 28.08.2007

Product: **Feser One - F1 - Cooling Fluid**

1. Identification of the substance / preparation and company

Description:

Feser One - F1 - Cooling Fluid 

Use:

Corrosion protection and heat transfer liquid for computer watercooled systems.

Company Identification:

The Feser Company - Melanie Gennat GbR
Am Brandbusch 14
58708 Menden - Germany
Tel.: 02373 - 3969924
Fax: 02373 - 3969925

Emergency Phone Number:

Contact your National Anti Poison Centre.

2. Composition / Information on ingredients

Ingredients:

Aqua Bidestillata
Ethylene-Glycol / Ethanediol - Feser Base T
Inhibitors
UV-color pigments

Hazardous components:

Ethanediol

| | |
|-------------|----------------|
| Value | < 20 % |
| CAS | 107-21-1 |
| EG | 203-473-3 |
| INDEX | 603-027-00-1 |
| Certificate | Xn |
| R-Phrase | 22 |
| S-Phrase | 2 , 24/25 , 46 |



For full text of R- and S-Phrases see under section 15.

3. Hazards identification

R22: Harmful if swallowed.

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4. First Aid measures

Symptoms:

After Inhalation: **Tickle of the throat and heavy breathing may occur.**

After Skin contact: **Skin irritation may occur in the contact area.**

After Eye contact: **Irritation and reddening can occur.**

After Ingestion: **Can cause sickness and tickle of the throat.**

Measures:

After Inhalation: **Seek medical attention if ill effect or irritation develops.
Remove to fresh air.**

After Skin contact: **Wash all exposed skin area with mild soap and water, followed by
warm water rinse.**

After Eye contact: **Flush with lukewarm water for 15 minutes.**

After Ingestion: **Rinse mouth and drink water. Get medical advise.**

General Informations: **Remove affected clothing.**

5. Fire-Fighting measures

Extinguishing media: **Use extinguishing media appropriate for surrounding fire.**

Protective equipement: **Use non-air circulation depended respirator. Protect eyes and skin
with demanded clothes and protections.**

Risk of exposure: **Sets free gases and smoke during combustion.**

Further details: **Danger level is depending on burning materials and conditions.
Contaminated water for firefighting must be disposed after
governmental regulations.**

6. Accidental release measures

Personal precautions:

Equip cleanup crew with proper protection.

Environmental precautions:

Hold back contaminated water / water for firefighting.

Prevent entry to sewers, ground and public waters.

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Cleaning process after spillage / leakage:

In great quantities: Drain the product.
Remains:: Clean up with liquid binding materials.

Additional information:

Slippery when spilled on ground.

7. Handling and storage

Handling:

Close the bottle directly after usage. Avoid all unnecessary exposure.
Handle in accordance with good industrial hygiene and safety procedures.

Storage:

Store the reservoir at a cool, dry and sun-protected place.
Original HDPE / PET bottle is advised..

8. Exposure controls / Personal protection

General protection and hygiene measures:

Do not breath Gases/Vapors/Aerosols.

Personal protection:

Hand protection: **Wear gloves.**
Eye protection: **Use splash goggles when eye contact due to splashing is possible.**
Skin protection: **If skin contact or contamination of clothing is likely, protective clothing should be worn.**

9. Physical and chemical properties

Physical state: **liquid**
Color: **specifications: clear/blue/red/green/yellow/orange/pink/purple/black**
Odor: **characteristic**
Solubility in water: **mixable in all proportions**
Ph-value: **approx. 6,0 - 7,0**
Solid point: **< -5 °C**
Flash point: **> 110 °C**
Viscosity, kinematically: **2 - 3 mm²/s - 20 °C**
Density: **1,05 g/cm³ - 20 °C**
Vapor pressure: **2 mbar - 20 °C**

10. Stability and reactivity

Stability: **Stable under normal conditions.**
Materials to avoid: **Oxidizing agent.**
Hazardous reactions: **None known.**

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11. Toxicological information

LD50/oral/Rat > **10 g/kg**

Primary skin irritation/Rabbit: **No irritations.**

Primary mucous membrane irritation/Rabbit: **No irritations.**

Details of Feser-One:

Experience at humans:

Already seconds after swallowing Feser One Fluids following symptoms occur: headache, feeling of sickness and regurgitation.

Further details for Ethanediol:

Experience at humans:

middle deadly dose: 1,2 - 1,5 g/kg , oral, adults

disturbed consciousness, nephrotoxic, neurotoxic:

This symptoms can already occur in small doses.

12. Ecological information

Eco toxicity:

Fish: Leuciscus idus/LC50 (96 h): > 500 mg/l

Aquatic invertebrates: Daphnia magna/EC50 (48 h): > 500 mg/l

Aquatic plants: Algen/EC50 (72 h): > 500 mg/l

Extra information:

This product has not been tested yet. All statements are derived from the properties of the components.

13. Disposal considerations

Dispose in a safe manner in accordance with local/national regulations.

Purified bottle:

Can be disposed with normal trash. Dual System Licence (german)



Unpurified bottle:

Bottle can be reused if not contaminated.

14. Transport information

No hazardous material for transportation.

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15. Regulatory information

Regulations of the EU (classifications) / National Regulations

EC-directives 1999/45/EC and 67/548/EEC:

| | | | |
|------------|--------|---|--|
| Symbol(s): | Xn |  | Harmful |
| R-Phrase: | R22 | | Harmful if swallowed. |
| S-Phrase: | S2 | | Keep out of reach of children. |
| | S24/25 | | Avoid contact with skin and eyes. |
| | S46 | | If swallowed, seek medical advice immediately and show container or label. |

Hazardous components for labeling: **1.2-ETHANDIOL**

Other regulations:

Classifications for VbF (Germany): **none**

Water-polluting class: **nwp (not water-polluting)**

16. Other informations

Disclaimer of liability:

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