

Safety Data Sheet
According to (EG) 1907/2006

5-master Fluid

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the product

Product name: 5-Master-Fluid

1.2 Use of the product

Fuel for the 5Master

1.3 Identifizierung of the company/undertaking

TBF-PyroTec GmbH, Lichterfelder Str. 5 A, 21502 Geesthacht,

Tel. +49 4152 157 9950

e-mail: info@tbf-pyrotec.de

Notfälle:

Einheitliche Notrufnummer: 112 (EU)

Tel.: +49 4152 157 9950

2. Composition/information on ingredience

Isoparaffines	60-85%
Aliphatic Ketones	1-10 %
Aliphatic Alkohols	1-5%
Aliphatic Ethers	1-5%
Aliphatic Esters	1-5%

3. Hazards identification

Extremely flammable. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapour may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

4.1 General measures:

In case of coma never give victims something to drink. Risk of asphyxiation.

4.2 After inhalation:

Fresh air. Consult doctor if feeling unwell

4.3 After skin contact:

Wash off with plenty of water. Remove contaminated clothing.

4.4 After eye contact:

Rinse out with plenty of water with the eyelid held wide open.

4.5 After swallowing:

Caution if victim vomits. Risk of aspiration. Pulmonary failure possible. Call in physician.

5. Fire-fighting measures

5.1 Suitable extinguishing media:

Foam. Powder. Carbon dioxide (CO₂).

5.2 Not suitable media:

Water

5.3 Special risks:

Highly flammable. Keep away sources of ignition. Vapours heavier than air. Form explosive mixtures with air. Keep away electrostatic materials.

6. Accidental release measures

6.1 Person-related precautionary measures:

Don't breath vapours. Avoid substance contact. Ensure supply of fresh air in enclosed rooms

6.2 Enviromental-protection measures:

Do not allow to enter sewerage system. Risk of explosion!

6.3 Procedures of cleaning/absorption:

Take up with liquid-absorption materials or, if not available with dry sand/earth. Store in a closed disposal container. Clean up effected area.

7. Handling and storage

7.1 Handling:

Keep away from sources of ignition. Take measures to prevent elektrostatic charging.

Work under hood or outdoor. Do not inhale the vapours.

7.2 Storage:

Store in tightly closed metal-container in a well-ventilated place, away from sources of ignition and head. At +15°C - +25°C.

8. Exposure controls/personal protection

8.1 Technical measures:

Ensure a well ventilation in rooms.

8.2 Specific control parameter:

VLA-ED: 1000 ppm oder 3000 mg/m³.
TLV-TWA: 600 ppm oder 1770 mg/m³.

8.3 Respiratory protection:

In case of generated Vapours a respiratory protection is required. Filter AX. P₃.

8.4 Hand protection:

Suitable rubber protective gloves are required (polychloroprene)

8.5 Eye protection:

Wear a suitable protection goggles.

8.6 Special hygiene measures:

Wear off contaminated clothes. Wear antistatic protective clothing only.

9. Physical and chemical properties

Form: clear and colourless liquid
Odor: characteristic

Boiling Point: 27,8°C
Melting Point: -159,9°C
Flashpoint: -20°C
Ignition temperature: 420°C
Explosion limits (lower/upper): 1,3 / 7,6 Vol. %
Density (20°C): 0,6201
Solubility in Water: 0,048 g/l

10. Stability and reactivity

10.1 Conditions to be avoided:

Warming

10.2 Substances to be avoided:

Oxidizing agents

10.3 Hazardous decomposition products:

Not known

10.4 Further Information:

Explosible with air in a vapourous/gaseous state

11. Toxicological information:

11.1 ,Acute toxicity:

CLLo inh. Maus: 419 g/m³/2h

LD₅₀ inh. Ratte: 1280mg/l 4h (Lit.)

11.2 Gefährliche Auswirkungen auf die Gesundheit:

After inhalation: Drowsiness, dizziness

After skin contact: Degreasing effect on Skin. Risk of infection.

After swallowing: Nausea, vomiting. After vomiting risk of respiration, passage into lung can result in a condition resembling pneumonia. After absorption of large quantities: Drowsiness, dizziness, euphoria, excitation, spasms, in certain circumstances narcosis.

12. Ecological information

12.2 Ecotoxic effects

Toxic for aquatic organisms:

Fish toxicity: *Onchorhynchus mykiss*: LC₅₀: 3,1mg/l 96h

Daphnien: *Daphnia magna*: EC₅₀: 2,3mg/l 48h

12.3 Biologic degradation:

Biodegradation. 100%/12d (Lit.)

12.4 Bioaccumulation:

No appreciable bioaccumulation potential is to be expected.

12.5 Further environmental effects:

Do not allow to enter waters, waste water or soil.

13. Disposal Considerations.

13.1 Product:

There are no standardised Europe-wide regulation. Disposal in compliance with the local regulations.

13.2 Contaminated Packagings:

See product

14. Transport Information

Road & rail (ADR):

Technical name: Hydrocarbons, liquid, n.o.s.

UN 3295 class: 3 Packaging group: I (D/E)

Sea (IMDG):

Technical name: Hydrocarbons, liquid, n.o.s.

UN 3295 class: 3 Packaging group: I (D/E)

Air (ICAO-IATA):

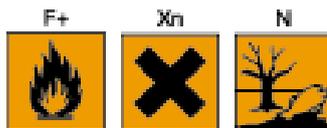
Technic name: Hydrocarbons, liquid, n.o.s.

UN 3295 class: 3 Packaging group: I (D/E)

Packaging directives: CAO 303 PAX 302

15. Vorschriften

15.1 Label in compliance with REACH



Symbols:

Advice to Hazards: Extremely flammable, harmful, dangerous for the environment

R-phrases: 12-65-66-67-51/53 extremely flammable. harmful: May cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: 9-16-29-33-61-62 Keep container in a well-ventilated place. Keep away from sources of ignition – No smoking. Do not empty into drains. Take precautionary measures against static discharges. Avoid release to the environment. Refer to special instructions/Safety data sheet. If swallowed, do not induce vomiting: seek medical advice immediately and show this Data sheet or Label

16. Other information

Date of revision:2 4.06.09

The information contained herein is based on the present state of our knowledge. It characterizes the product to the appropriate safety precautions, It does not represent a guarantee of the properties of the product