

Material Safety Data Sheet

According to 91/155 EC

Printing date: 21.03.2002

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1. Identification of substance:

- Product details

- Trade name: FTMZ

- Supplier:

Flowdrill Fließformwerkzeuge GmbH

Olbrichtstrasse 21

69469 Weinheim

Tel.: 06 20 1 – 29 0 91 0

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2. Compositionl Data on components

- Chemical characterization

- Description:

Mixture of harmless substances with the following additives:

- Dangerous components: Void

- Additional information: Non water-miscible coolant.

3. Hazards identification

- Hazard designation: Void

- Information pertaining to particular dangers for man and environment: Void

- Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4. First aid measures

- General information: No special measures required.

- After inhalation: Supply fresh air.

- After skin contact: The product is not skin irritating.

- After eye contact: Rinse opened eye for several minutes under running water

- After swallowing: Do not induce vomiting; instantly call for medical help.

5. Fire fighting measures

- Suitable extinguishing agents: Use fire fighting measures that suit the environment

- For safety reasons unsuitable extinguishing agents:

Water with a full water jet.

- Special hazards caused by the material, its products of combustion or flue gases:

Can be released in case of fire.

Carbon monoxide (CO). products.

Carbon black and other organic combustion products.

- Protective equipment:

Wear self-contained breathing apparatus.
Do not inhale explosion gases or combustion gases.
Wear full protective suit.

- Additional information:

Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures

- Person-related safety precautions:

Particular danger of slipping on leaked/spilled product.

- Measures for environmental protection:

Do not allow to enter drainage system, surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to enter the ground/soil.

- Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- Additional information: No dangerous materials are released.

See Section 8 for information on personal protection equipment.

7. Handling and storage

- Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires:

No special measures required

- Storage

- Requirements to be met by storerooms and containers:

Use only containers specifically permitted for this substance/product.

- Information about storage in one common storage facility:

Do not store together with oxidising and acidic materials.

- Further information about storage conditions:

Recommended storage temperature: 5 to 35 °C.

- Storage class

- Class according to regulation on inflammable liquids: Void.

8. Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7

- Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information:

The values that were valid during the compilation were used as basis.

- Personal protective equipment:

- General protective and hygienic measures:

- Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Do not eat or drink while working.
Use skin protection cream for preventive skin protection.
Do not carry cleaning cloths impregnated with the product in trouser pockets.
- **Protection of hands:** Oil resistant gloves.
 - **Eye protection:** Safety glasses recommended during refilling.

9. Physical and chemical properties

Form:	Fluid
colour:	Yellow-brown
smell:	Characteristic
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
- Flash point:	212 ° C DIN ISO 2592
- Ignition temperature::	Not determined
- Self-inflammability:	Product is not self igniting
- Danger of explosion:	Product is not explosive
- Density at 20°C:	0.945 ± 0.01 g/cm ³ DIN 51757
- Solubility in/ Miscibility with water:	Not miscible or difficult to mix
- Viscosity:	at 40 ° C, 350 ± 35 mm ² /S

10. Stability and reactivity

- **Conditions to be avoided:**
No decomposition if used according to specifications .
- **Dangerous reactions:** Reactions with strong oxidation agents and strong acids.
- **Dangerous products of decomposition:**
None in case of appropriate storage/handling/transport.

11. Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **On the skin:** No irritant effect
- **On the eye:** No irritant effect
- **Sensitization:** No sensitizing effect known
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version (see above).
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological information

- General notes:

Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.

13. Disposal considerations

- Product:

- Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Unclean packaging:

- Recommendation: Disposal must be made according to official regulations

14. Transport information

- Land transport ADR/RID and GGVS/GGVE (cross-border/domestic):

- ADR/RID-GGVSIE Class: -

- Maritime transport IMDG/GGVSea:

- Marine pollutant : No

- Transport/Additional information:

Not dangerous according to the above specifications.

15. Regulatory information

- Designation according to EC guidelines:

Observe the normal safety regulations when handling chemicals

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

- National regulations:

- Classification according to VbF: Void

- Water hazard class:

Water hazard class 2 (Self-assessment): hazardous for water

16. Other information

- This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing data specification sheet: Technical department