



Safety data sheet according to directive 2001/58 EEC  
Date: 08/2006 Name: **Turmotherm LMI**  
Updating: 29/08/06

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### **1. Commercial product name and company identification:**

Trade name: **Turmotherm LMI**

Company: LUBRICANT CONSULT GMBH

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D-63477 Maintal 2 (Germany) Tel.: +49 6109/7650-0 FAX: +49 6109/7650-51

### **2. Composition / Information on ingredients:**

Combination of highly boiling isoparaffins.

### **3. Hazards identification:**

The product when properly handled is not dangerous for the human health.  
Harmful effects are expected only in case of misuse especially in case of thermal decomposition.

### **4. First aid measures:**

Skin contact: Wash with water and soap. Remove contaminated clothing.

Eye contact: Flush with plenty of water for at least 15 minutes. See a physician\* if the eye irritation remains.

Ingestion: See a physician\* if necessary. Do not induce vomiting.

Inhalation: Remove the patient to fresh air.

\*Show the physician this safety data sheet.

### **5. Fire fighting measures:**

Suitable extinguishing media: dry chemicals, powder, foams, carbon dioxide

Do not use water.

In the case of fire, the vapour can involve toxic compounds (carbon monoxide).

Use a respirator to protect from vapours.

### **6. Accidental release measures:**

Absorb small amounts on inert material. Collect the released product and the used absorbent materials in suitable containers for disposal (see sect. 13). Hold back large amounts of liquids by embankment (mound of earth, sand or other inert materials). Use pumps or call the fire-brigade, if necessary. Avoid the uncontrolled discharge in sewage systems, in surface and underground waters.

Do not smoke while handling with released liquids. Avoid the contact with fire and sparks.

### **7. Handling and store measures:**

Store in cool and dry areas. Protect from water and wetting.

Keeping quality in original drums for the storage conditions mentioned above: minimum 5 years.

If the oil is exposed to high temperatures, good ventilation in the working areas is commendable.

Do not eat, drink and smoke in working areas.



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### 8. Exposure control / Personal protection:

- Hand protection: Not necessary in normal use. When often handling the product wear gloves (i.e. made from Latex, India rubber and other materials; permanent using time > 8 hours).
- Respiratory protection: Not necessary in normal use. Avoid breathing the vapours above the decomposition temperature.
- Eye protection: Not necessary in normal use.

### 9. Physical and chemical properties:

- Physical state: liquid
- Colour: colourless
- Odour: none
- Pourpoint: -15° C (5°F) DIN ISO 3016
- Boiling point: > 390°C (> 734°F)
- Density: 0,836 g/cm<sup>3</sup> at 20°C (68°F) DIN 51 757
- Vapour pressure: < 0,1 mbar at 20°C (68°F)
- Viscosity: 32 mm<sup>2</sup>/s at 40°C (104°F) DIN EN ISO 3104
- Solubility in water: insoluble
- pH-value: not determined
- Flash point: ≥ 240°C (≥ 464°F) DIN EN ISO 2592
- Ignition temperature: not determined
- Explosion limits: lower: 2,8 Vol-% upper: 11,5 Vol-% (for oil mist)

### 10. Stability and reactivity:

- Thermal decomposition: >345°C (> 653°F)
- Hazardous decomposition products: No decomposition under normal storage and handling conditions.
- In the case of misuse at temperatures above the decomposition temperature harmful vapours may arise from the product.
- Materials to avoid contact: strong oxidising agents (liquid or compressed oxygen).

### 11. Toxicological information:

- Experimental toxicological data.
- oral: LD<sub>50</sub> > 5000 mg/kg (rat)
- Turmotherm LMI when properly handled is not dangerous for human health.
- Turmotherm LMI has no known effects of irritation, sensitisation, chronic toxicity or carcinogenesis (Based on data from components).
- All ingredients of Turmotherm LMI are registered by NSF International for incidental food contact (H1-Registration).
- limit value for oil mist: 5 mg/m<sup>3</sup>.



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### **12. Ecotoxicological information:**

Use the product according to the good working practices avoiding polluting the environment.  
Water Pollution Class WGK 1: Slightly water endangering (Classification according to German VwVwS from May, 1999). Avoid the contamination of soil and water.

### **13. Disposal considerations:**

Send the waste product to authorised plants according to local laws and regulations or destroy it by incineration.

Turmotherm LMI contains no halogens and no toxic metals.

LAGA- Waste code number (Germany):

541 06 for transformer oils, thermal oils and hydraulic oils, free from polychlorated biphenyls.

542 09 for solid materials contaminated with grease or oil.

EWC- Waste code number (European Community):

13 03 05 for thermal and isolation oils only based on mineral oil.

15 02 99 D1 for used absorbent and filter materials, cleaning rags and protection clothes contaminated with grease or oil.

17 02 99 D1 for wood, glass and plastics containing grease or oil (for example: residuals of oil in plastic cans).

### **14. Transport information:**

The product is not dangerous for transportation

Road transportation: (ADR) not classified

Rail transportation: (RID) not classified

Sea transportation: IMDG / IMO not classified

Air transportation: ICAO / IATA not classified

U.N.-number: not assigned

Packaging group: not assigned

### **15. Regulatory information:**

No regulation and classification according to EEC directives necessary.

No labelling with hazard symbols.

Aquatic toxicity: 1 (=German water hazard classification)

### **16. Further Information:**

The information given in this safety data sheet is for safety purpose only. It is given in good faith and based on the best knowledge and experience of the company at the date of issuing. The company is not responsible for damages caused by the use of the product in applications for which it was not intended or for conditions of use outside its control. All data refer to the product in the delivering condition.

Former versions of this safety data sheet are no longer valid.