



Safety data sheet according to directive 2001/58 EEC

Date: 07/2006

Name: **Turmosynthgrease AL 4601**

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1. Commercial product name and company identification:

Trade name: **Turmosynthgrease AL 4601**

Company: LUBRICANT CONSULT GMBH
Gutenbergstraße 13

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

2. Composition / Information on ingredients:

Combination of highly boiling paraffin, alumina complex soap and additives.

Hazardous ingredients: None

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.

If grease has penetrated skin by force (in case of misuse of a grease press): See a physician* immediately.

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:

Pick up free grease for recycle or disposal. Absorb small amounts on inert material.

Collect the released product and the used absorbent materials in suitable containers for disposal (see sect. 13).

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

7. Handling and store measures:

Store in cool and dry areas.

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

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



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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, permanent using time >30 min.; made from butyl rubber, permanent using time >8 hours and other materials).
- 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: pasty
- Colour: amber
- Odour: none
- Dropping point: > 250°C (>480°F)
- Boiling point: > 250°C (>480°F)
- Density: 0,892 g/cm³ at 20°C (68°F) DIN 51 757
- Vapour pressure: < 0,1 mbar at 20°C (68°F)
- Viscosity (basic oil): 460 mm²/s at 40°C (100°F) DIN EN ISO 3104
- Solubility in water: insoluble
- pH-value: not determined
- Flash point: > 250°C (>480°F) DIN EN ISO 2592
- Ignition temperature: > 300°C (>572°F)
- Explosion limits: lower: 2,8 Vol-% upper: 11,5 Vol-% (for oil mist)

10. Stability and reactivity:

- Thermal decomposition: > 250°C (>480°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), very strong acids, very strong alkalis.

11. Toxicological information:

- Experimental toxicological data.
- oral*: LD₅₀ > 5000 mg/kg (rat)
- Turmosynthgrease AL 4601 when properly handled is not dangerous for human health.
- Turmosynthgrease AL 4601 has no known effects of irritation, sensitisation, chronic toxicity or carcinogenesis (Based on data from components).
- limit value for oil mist: 5 mg/m³.

*in analogy to comparable products



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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:

Destroy the waste product by incineration according to local laws and regulations.
LAGA- Waste code number (Germany):
542 02 for waste lubricants.
542 09 for solid materials contaminated with grease or oil.
EWC- Waste code number (European Community):
12 01 12 for used waxes and greases
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 grease in plastic tubes).

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.