

Material Safety Data Sheet

Product name: **WOLFRAKOTE TOP PASTE**

Date: September 1998

Replaces: June 1997

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Section I

Company: Klüber Lubrication North America L.P.

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Article Nr.: 089003

Chemical characterization: (preparation)

Section II - Hazardous Ingredients

Hazardous ingredients	CAS no.	wt.%	TLV	PEL
Titanium dioxide	13463-67-7	Proprietary	10 mg/m ³	N/A
Graphite	7782-42-5	Proprietary	2 mg/m ³	N/A

Section III - Other Ingredients (Trade Secret)

Ingredients	CAS no.	wt.%	TLV	PEL
Mineral oil	Proprietary	Proprietary	N/A	N/A
Synthetic hydrocarbon oil	Proprietary	Proprietary	N/A	N/A
Molybdenum disulfide	Proprietary	Proprietary	N/A	N/A

Section IV - Physical Data

Drop point (°C): > 200°C DIN ISO 2176

Vapor pressure first (mm Hg.): N/A

Density: ~ 1.30 g/cm³, 20°C

Solubility in water: insoluble

Appearance and odor: light-gray paste with a characteristic odor

Section V - Fire and Explosion Hazard Data

Flash point: Base oil > 200°C

Lower explosion limit: N/A

Upper explosion limit: N/A

Extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO₂)

Unusual fire and explosion hazards: Empty metal containers retain product residue. Do not pressurize, cut, weld, drill, solder or expose container to heat, flame, sparks, or other sources of ignition: it may explode, causing serious injury or death.

Special fire Fighting Procedures: Use self-contained breathing apparatus for enclosed or confined spaces or as otherwise needed. Cool fire exposed areas and equipment.

Section VI - Health Hazard Data

The information herein is given in good faith, but without warranty, express or implied. All risks of use of the product are therefore assumed by the user. Appropriate warnings and safe handling procedures must be provided to handlers and users.



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Toxicological information from products of similar composition

Acute toxicity : LD50/oral/rat = > 2 g/kg (literature data)

Eye Contact: May cause mild irritation on direct contact.

Skin contact: Prolonged or repeated contact may cause the removal of skin oils, possibly leading to irritation and/or dermatitis.

Inhalation: Not applicable under conditions of normal use.

Ingestion: No acute or chronic effects expected. If swallowed, may cause irritation of the digestive tract.

Section VII - Emergency and First Aid Procedures

After inhalation: Not applicable under normal conditions of use.

After contact with skin: Wash off with soap and plenty of water. Apply skin cream if necessary. Seek medical attention if irritation or infection occurs. Remove contaminated clothing.

After contact with eyes: Flush with plenty of water. If irritation persists, or if an infection develops, seek medical attention.

After ingestion: If large amounts are swallowed, do not induce vomiting. Get medical attention.

Advice to doctor: Treat symptomatically.

Section VIII - Reactivity Data

Stability: Stable

Conditions to avoid: Open flames and other sources of heat.

Materials to avoid: strong oxidizing agents, such as pure oxygen

Hazardous decomposition products: Fumes, smoke, carbon monoxide and carbon dioxide

Section IX - Spill or Leak Procedures

Steps to be taken in case material is released or spilled

Scoop up material and add absorbent if necessary. Collect product and absorbent, place in a chemical waste container. Keep product out of waterways.

Waste disposal method

Recovered lubricant must be disposed of or reclaimed in compliance with all federal, state and local regulations. Do not dump into sewers, on the ground, or into any body of water. See Section XII.

Section X - Special Protection Information

Respiratory protection: No special protective equipment required under normal conditions of use.

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Hand protection: Wear impervious gloves.

Eye protection: Wear safety glasses. Do not wear contact lenses when working with chemicals.

Body protection: Wear clean, body-covering clothing to minimize dermal exposure.

Ventilation: Under normal conditions of use, no special ventilation required. However, if product is heated, use the appropriate ventilation for the environment.

Other protection measures: Safety showers, eye wash fountains, and washing facilities should be readily available.

Section XI - Special Precautions for Handling and Storage

Avoid prolonged and/or repeated contact with skin. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream. Wash hands with soap and water before eating, drinking, and/or smoking.

Do not store together with food.

Store at room temperature in the original container. This product should not be stored near extreme heat sources nor ignition sources.

Section XII- Additional Information

Titanium dioxide (CAS # 13463-67-7) is a regulated substance in the state of Massachusetts and New Jersey. Note that this substance is listed as a hazardous ingredient in compliance with the Hazard Communication Standard 29 CFR 1910.1200 because it is present at greater than 1%. However, since this substance is present in a grease, it is extremely unlikely that someone could be overexposed to this ingredient.

Graphite (CAS # 7782-42-5) is a regulated substance in the state of Pennsylvania. Note that this substance is listed as a hazardous ingredient in compliance with the Hazard Communication Standard 29 CFR 1910.1200 because it is present at greater than 1%. However, since this substance is present in a grease, it is extremely unlikely that someone could be overexposed to this ingredient.

HMIS Rating

Health: 1
Flammability: 1
Reactivity: 0
Protective Equipment: B

NFPA Rating

Health: 1
Flammability: 1
Reactivity: 0
Other: N/A

Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether the product meets any of the criteria for a hazardous waste. Conditions may render the spent product as hazardous, under the criteria for characteristics of hazardous waste under EPA CFR 40, 261.20.

Not hazardous by D.O.T. regulations.
