



Material Safety Data Sheet

Product Name: **KLUBERPASTE HEL 46-450 (#089032)**

Date: March 24, 2008

Replaces: December 28, 2005

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Section 1 – Company Identification

Klüber Lubrication North America L.P.
32 Industrial Dr.
Londonderry, NH 03053
Phone: (603)647-4104

Emergency Phone
United States (800)424-9300 (ChemTrec)
International (703)527-3887

Section 2 – Composition Information

Calcium pyrophosphate
Ester oil
Graphite
Polyalkylene glycol oil
Zinc oxide

Section 3 – Health Effects

Eyes: May cause irritation upon contact.

Skin: May cause irritation upon repeated contact.

Inhalation: Vapor inhalation under ambient conditions will not occur, however, if heated to high temperatures, oil mist may cause irritation to the respiratory tract.

Ingestion: May cause irritation to respiratory tract and diarrhea.

Section 4 – First Aid Measures

Eyes: Flush eyes with clean water for 20 minutes. Seek medical attention if irritation persists.

Skin: Wash with soap and water. Seek medical attention if irritation or rash persists.

Inhalation: Remove victim to fresh air. If respiratory problems continue, seek medical attention.

Ingestion: Wash out mouth immediately. Do not induce vomiting. Seek medical attention.

Advice to Physician: Treat systematically.

Section 5 – Exposure Controls

Eye Protection: Safety goggles or safety glasses with side shields when applying product to moving parts. Consult your company's policy regarding eye protection.

Hand Protection: Grease proof gloves for hypersensitive persons. Consult your company's policy regarding hand protection.

Body Protection: Clean overalls. Consult your company's policy regarding personal protective clothing.

Respiratory Protection: During normal use, no special respiratory protection is required, however, if misting / vapors occur due to high heat or fire, use self contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-demand mode. Consult your company's respiratory protection policy.

| | | |
|----------|---|---|
| | TLV | PEL |
| Graphite | 2 mg/m ³ (respirable fraction) | 5 mg/m ³ (respirable fraction) |

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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Other Protective Measures: Emergency eyewash / shower equipment should be readily available.

Section 6 – Fire Fighting Measures

Flash Point: May be combustible at high temperatures.

Lower Explosion Limit: Not determined.

Upper Explosion Limit: Not determined.

Extinguishing Media: Water mist, foam, dry chemical or carbon dioxide. Do not use water jet as this may spread fire and contamination.

Respiratory Protection: Self contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-demand mode.

Section 7 – Accidental Release

If product leaks or is inadvertently spilled, eliminate ignition sources and prevent spill from entering drains and waterways. Absorb spilled product with absorbent and place in a container for proper disposal.

Section 8 – Handling and Storage

Handling: No special handling precautions are necessary, however, good personal hygiene is recommended. Wash hands with soap and water before eating, drinking or smoking. Use product in well ventilated areas.

Storage: Keep container tightly closed in a cool, well ventilated place. Keep away from foodstuffs. Keep away from elevated temperatures. Keep away from children.

Section 9 – Physical and Chemical Properties

Appearance: Black grease.

Drop Point: > 250° C (DIN ISO 2176).

Vapor Pressure (mm Hg): Not determined.

Density: ~ 1.43 g/cm³ @ 20° C.

Solubility in Water: Insoluble.

Section 10 – Stability and Reactivity

Stability: Stable under ambient conditions.

Conditions to Avoid: Open flames and heat sources.

Materials to Avoid: Oxidizing agents.

Hazardous Decomposition Products: Burning generates smoke, carbon monoxide, carbon dioxide, and airborne soot.

Hazardous Polymerization: Will not occur.



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Section 11 – Toxicological Information

Acute Toxicity: Not determined.

Chronic Toxicity: Not determined.

Sensitization: Not known to be a sensitizer.

IARC: No components present.

NTP: No components present.

Section 12 – Disposal Considerations

Under RCRA, it is the responsibility of the user, at the time of disposal, to determine whether the product meets the RCRA criteria for hazardous waste. As a new product, it is not considered a RCRA hazardous waste.

Section 13 – Transportation

DOT: Not regulated.

Section 14 – Regulatory Information

TSCA Section 8(b) Inventory Status: All components are either exempt or listed on the TSCA inventory.

TSCA Section 12(b) Export Notification: This product does not contain any component(s) that are subject to Section 12(b) Export Notification.

SARA Section 302 Extremely Hazardous Substance (EHS): This product does not contain any component(s) regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

SARA Section 304 CERCLA Hazardous Substance: This product does not contain any component(s) regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification.

SARA Section 313 Toxic Chemical List: Zinc compound (1 – 10%).

WHMIS: Not controlled.

RoHS: Compliant.

Section 15 – Additional Information

HMIS Rating

Health: 1

Flammability: 1

Reactivity: 0

Personal Protection: B