

### Description

CENTOPLEX HO is a mineral oil and Li soap base lubricating grease for a wide range of applications.

It is resistant to oxidation, has a very good low-temperature behaviour and ensures good protection against corrosion.

### Application

CENTOPLEX HO is suitable for the lubrication of toothed and worm gears and for small low-speed gears. It can also be used in sealed rolling and plain bearings with a low internal clearance and operating at high speeds.

CENTOPLEX HO is, among others, used in garage door drives, plain bearings in telescopic axles and leaf springs in rail vehicles. It is also applied as a multi-purpose grease in trucks, construction vehicles, special-purpose and agricultural vehicles.

### Application notes

CENTOPLEX HO can be applied by grease gun, brush, spatula or through automatic lubrication systems.

For CENTOPLEX HO we recommend a service temperature range between -35 and 100 °C, depending on the lubricant structure, intended use and application technique.

### Storage

The storage period is approx. 2 years if the product is stored in the original closed container in a dry place.

### Pack sizes

1 kg can  
25 kg bucket  
180 kg drum

### CENTOPLEX HO

- Special grease for a variety of applications
- Good low-temperature behaviour
- Excellent corrosion protection properties
- Resistant to oxidation

### Product data

Colour, aspect	beige to brownish
Texture	homogeneous, fibred
Density, DIN 51 757, bei 20 °C, g/cm <sup>3</sup>	0.88
Base oil viscosity, DIN 51 561, at 40 °C, mm <sup>2</sup> /s at 100 °C, mm <sup>2</sup> /s	approx. 110 approx. 11.5
Drop point, DIN ISO 2176, °C	> 170
Corrosion protection, SKF Emcor test, DIN 51 802, 1 week, distilled water	corrosion rating 0/1
Worked penetration at 25 °C, DIN ISO 2137 (ASTM-D 217); 0.1 mm	370 to 380
Consistency class, DIN 51 818, NLGI	0
Flow pressure at -30 °C, DIN 51 805, mbar	approx. 1000
Speed factor (n x d <sub>m</sub> ), mm/min	approx. 500,000

# CENTOPLEX® HO

## Material Safety Data Sheet

### Section I

Manufacturer's name: Klüber Lubrication München KG  
Chemical name and synonyms: Lubricating grease  
Trade name and synonyms: CENTOPLEX HO  
Chemical family: Mineral oil, lithium soap  
Formula: Proprietary

### Section II – Hazardous Ingredients

#### Paints, preservatives, solvents

	%	TLV (units)
Pigments	—	—
Catalyst	—	—
Vehicle	—	—
Solvents	—	—
Additives	—	—
Others	—	—

#### Alloys and metallic coatings

	%	TLV (units)
Base metal	—	—
Alloys	—	—
Metallic coatings	—	—
Filler metal plus coating or core flux	—	—
Others	—	—

#### Hazardous mixtures of other liquids, solids, or gases

—

### Section III – Physical Data

Boiling point: n/a  
Vapor pressure (mm Hg): n/a  
Vapor density (air=1): n/a  
Solubility in water: not soluble  
Specific gravity (H<sub>2</sub>O=1): approx. 0.88  
Percent, volatile by volume (%): 0  
Evaporation rate (.....=1): n/a  
Appearance and odor: beige brownish, neutral

### Section IV – Fire and Explosion Hazard Data

Flash point (base oil): > 200 °C ASTM D-92  
Flammable limits: — Lel: Uel:  
Extinguishing media: water fog, foam, dry chemical, CO<sub>2</sub>  
Special fire fighting procedures: Use self-contained breathing apparatus, cool fire exposed areas and equipment.  
Unusual fire and explosion hazards: Do not use direct stream of water, material may float and reignite.

n/a = not applicable

### Section V – Health Hazard Data

Threshold limit value: n/a  
*Effects of overexposure:*  
Eyes: Mild irritation  
Skin: Mild irritation, may cause dermatitis, oil acne or folliculitis with repeated contact.  
Ingestion: No more than slightly toxic if swallowed.  
Inhalation: n/a  
*Emergency and first aid procedures:*  
Eyes: Flush with large amount of water.  
Skin: Remove contaminated clothing, wash skin with soap and water, launder clothing prior to reuse.  
Ingestion: Contact doctor for directions. Never give anything by mouth to an unconscious person.

### Section VI – Reactivity Data

Stability: stable  
Incompatibility (materials to avoid): Strong oxidizing materials, such as pure oxygen.  
Hazardous decomposition products: n/a  
Hazardous polymerization: will not occur

### Section VII – Spill or Leak Procedures

Steps to be taken in case material is released or spilled:  
Eliminate all sources of ignition. Collect lubricant. Keep product out of waterways.  
Waste disposal method:  
Incinerate absorbed material or dispose of it in accordance with your local, state and federal regulations.

### Section VIII – Special Protection Information

Respiratory protection (specify type): n/a  
Ventilation: n/a  
Local exhaust: recommended  
Protective gloves: n/a  
Eye protection: n/a  
Other protective equipment: no

### Section IX – Special Precautions

Precautions to be taken in handling and storing:  
Minimize skin contact with all lubricants. Wash with soap and water prior to eating, drinking, smoking or using sanitary facilities.  
Other precautions:  
All chemical products should be handled as to prevent constant or repeated contact.

The data in this brochure is based on our general experience and knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience without, however, constituting an assurance of properties for specific cases. We recommend contacting our Technical Consulting Staff for information regarding specific applications. If required and possible we will be pleased to provide a sample for testing.



Klüber Lubrication, a member of the Freudenberg group of companies