



Material Safety Data Sheet

Product name: POLYLUB GA 352 P (# 097095)

Date: March 25, 2003

Replaces: August 2001

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Section 1 - Product and Company Identification

Company: Klüber Lubrication North America L.P.

32 Industrial Drive
Londonderry, N.H. 03053
Phone: (603)647-4104

Emergency telephone #: 1-800-424-9300 (Chemtrec)

Fax: (603)647-4105

Product Use: Lubricating Oil

Section 2 - Composition/Information on Ingredients

<u>Ingredient</u>	<u>TLV</u>	<u>PEL</u>
Mineral oil	5 mg/m ³ (mist)	5 mg/m ³ (mist)
Aluminum compound	N/Av	N/Av
Synthetic Hydrocarbon oil	N/Av	N/Av

Section 3 - Hazards Identification

Eye Contact: May cause mild irritation upon immediate contact.

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

Inhalation: Vapor inhalation under ambient conditions will not occur. Vapor pressure is very low. The inhalation of vapors (generated at extremely high temperature only) or oil mist may cause a mild irritation of the mucous membranes of the upper respiratory tract. Harmful concentrations of mists and/or vapors are unlikely to occur through reasonable and customary use of this product.

Ingestion: No acute or chronic effects expected. However, minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury.

Section 4 - Emergency and First Aid Procedures

After contact with eyes: Flush eyes with plenty of water for 15 minutes. If irritation persists, or if an infection develops, seek medical attention.

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 and wash before reuse.

After inhalation: If overcome by product vapor heated to extreme temperatures, immediately move from exposure and get medical attention. If breathing is irregular, start resuscitation or administer oxygen if available. If overexposed to oil mist, remove from further exposure until excessive oil mist condition subsides.

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

Advice to doctor: Treat symptomatically.

Section 5 - Exposure Controls

Eye protection: Wear safety goggles if splashes may occur. Do not wear contact lenses when using chemicals.

Hand protection: Wear chemical resistant gloves.

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

Ventilation: Under normal conditions of use, no special ventilation is required. However, if vaporized or misted and limits in Section 2 are exceeded, use local exhaust.

Respiratory protection: No special respiratory protection is required. However, if product is overheated beyond conditions of normal use, or misted, and the limits in Section 2 are exceeded, wear the appropriate NIOSH-approved respiratory protection.

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



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Section 6 - Fire Fighting Measures

Flash point: N/Av Method Used: DIN ISO 2592

Lower explosion limit: N/Av

Upper explosion limit: N/Av

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. Exposure to heat builds up pressure in container. Cool with water spray.

Special fire Fighting Procedures: If leak or spill has not ignited, use water spray to disperse any vapor and to flush spills away from ignition sources. Use self-contained breathing apparatus for enclosed or confined spaces or as otherwise needed. Do not use direct stream of water, material may float and re-ignite.

Section 7 - Accidental Release Measures

If product leaks or is inadvertently spilled, eliminate ignition sources isolate surrounding spill area with the proper containment system to prevent the spill from reaching waterways. Add absorbent and soak up the product. Collect product and absorbent, place in a chemical waste container for proper disposal.

Section 8 - Handling and Storage

Avoid contact with skin and remove soiled or soaked clothing. Wash hands with soap and water before eating, drinking, and/or smoking. Clean skin thoroughly after work and if necessary, apply skin cream. Store product under normal temperature and pressure.

Store product away from heat sources and food products.

Section 9 - Physical and Chemical Properties

Boiling Point: N/Av

Pour Point: N/Av

Method: DIN ISO 3016

Vapor Pressure (mm Hg.): N/Av

Density: N/Av

Method: DIN 51757

Solubility in Water: Insoluble

Specific Gravity (H₂O = 1): 0.92

Evaporation rate (ether = 1): N/Av

Appearance and odor: Amber color with a neutral odor.

Section 10 - Stability and Reactivity

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.

Hazardous polymerization: Will not occur

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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Section 11 - Toxicological Information

Acute toxicity: N/Av for this product.

Chronic toxicity: N/Av for this product.

Section 12- Disposal Considerations

Under RCRA, it is the user's responsibility to determine, at the time of disposal, whether the product meets any of the criteria for a hazardous waste defined in 40 CFR 261. As a new product it would not be considered RCRA hazardous waste.

Section 13- Transportation Information

Proper Shipping Name	Hazard Class or Division	UN ID	Packing Group
N/Av			

Section 14 – Regulatory Information

All product components comply with all applicable rules and orders under the Toxic Substance Control Act (TSCA).

The aluminum compound in this product is a Clean Water Act 304 Water Quality Criteria Substance.

The synthetic hydrocarbon oil in the product is a Clean Air Act 111 Volatile Organic Substance and is a group II NIOSH Pesticide.

Note: This product is classified as an H2 lubricant in compliance with the regulations of the US Department of Agriculture.

Section 15 - Additional Information

HMIS Rating: Health -1 Flammability - 1 Reactivity - 0 Personal Protection - B

Unk. = Unknown N/Av = Not Applicable N/Av = Not Available ~ = Approximately

POLYLUB GA 352 P

Adhesive long-term grease with good water resistance



Description

POLYLUB GA 352 P is an aluminium complex thickened grease incorporating a semi synthetic base oil.

This special grease shows good adhesion as well as excellent resistance to cold and hot water. It has been authorized by FDA (US Food and Drug Administration) for use as USDA H2 lubricant in the food-processing industry.

Application

POLYLUB GA 352 P is used for the lubrication of rolling and plain bearings, racks, cylinder guides, pneumatic cylinders, load rollers and slideways.

POLYLUB GA 352 P is suitable for machines and installations in the food-processing and related industries where contact with the food product is excluded.

Application notes

POLYLUB GA 352 P can be applied by means of brush, spatula or grease gun.

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry place.

Pack sizes

20 x 400 g grease cartridges
12 x 1 kg cans
1 x 25 kg buckets
1 x 180 kg drum

POLYLUB GA 352 P

- Good water resistance
- Good adhesion
- USDA H2-registered

Product data

Chemical structure, oil type	mineral oil, synthetic hydrocarbon
Chemical structure, thickener	aluminium complex soap
Service temperature range [°C]* approx.	- 35 to 120
Colour	amber
Appearance	transparent
Texture	homogeneous, fibrous
Worked penetration, DIN ISO 2137 at 25 °C [0,1 mm]	280 - 310
Apparent dynamic viscosity at 25 °C, shear rate 300 s ⁻¹ , device: Haake [mPa*s] approx.	3500 - 5500
Drop point, DIN ISO 2176 [°C]	> 220
Anticorrosion properties of lubricating greases, DIN 51802, (SKF-EMCOR). Duration of test: 1 week, distilled water	<= 1

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechanical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

The data in this product information 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. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



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