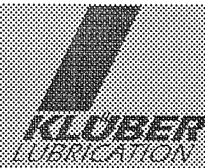


# PARALIQ® GA 351

## Food Grade Lubricant



### Description

PARALIQ GA 351 is a food grade lubricant offering good wear protection. It is authorized in accordance with USDA-H1 and meets the German and European food regulations. It is suitable for all friction points where an incidental, technically unavoidable contact with the food product cannot be excluded.

PARALIQ GA 351 has no smell or taste and is not harmful to health if applied as directed. It is resistant to all ambient media commonly found in the food processing industry, e.g. alcohol, milk and dairy products or water. Owing to its consistency, PARALIQ GA 351 is readily pumpable in centralized lubrication systems even at low temperatures (see diagram).

### Application

PARALIQ GA 351 is generally suitable for all lubrication points in the food processing industry where there might be an incidental, technically unavoidable contact with the food product. We recommend, however, to apply PARALIQ GA 351 to all friction points to avoid unintentional spreading.

#### Application examples:

- Metering pistons in cup filling and sealing machines
- Plain bearings in fish filleting machines
- Rolling bearings in fruit presses
- Rolling and plain bearings in cellarage installations
- Guide rods and ball-type bushings in packaging machines
- Dies in tablet presses
- Cylindrical roller bearings in rotary autoclaves
- Tubular tracks in slaughterhouses

### Application notes

Clean all bearings lubricated with a different grease before applying PARALIQ GA 351.

If the greases are miscible, relubrication with PARALIQ GA 351 is sufficient. Rolling bearings should be cleaned prior to the initial application of the lubricant. The lubricant is applied by spatula, grease gun or cartridge, or via a centralized lubrication system. Avoid over-lubrication. The friction points can be cleaned with a commercial cleaning agent.

### Storage

The storage period of PARALIQ GA 351 is 2 years if stored in the original closed container in a dry place. Once opened, close the container thoroughly to protect the grease against contamination.

### Pack sizes

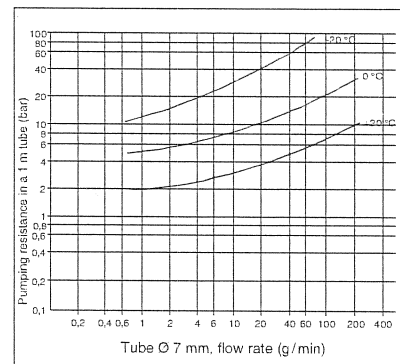
- 400 g grease cartridge
- 1 kg can
- 25 kg bucket

### Product data

Colour	beige, almost transparent
Texture	fibred, almost homogeneous
Flow pressure, DIN 51 805 at -30 °C	< 1000 mbar
Water resistance, DIN 51 807 3 h at 50 °C, rating 3 h at 90 °C, rating	1 – 50 1 – 90
Consistency, NLGI grade, DIN 51 818	1
Service temperature range	-40 to 120 °C
Speed factor ( $n \cdot d_m$ )	approx. $3 \cdot 10^5$

### PARALIQ GA 351

- Authorized in accordance with USDA-H1
- Excellent wear protection
- Pumpable in centralized lubrication systems even at low temperatures
- Resistant to all ambient media found in the food processing industry, e.g. alcohol, milk and dairy products





# Material Safety Data Sheet

Product name: PARALIQ GA 351 (#096020)

Date: April 22, 2003

Replaces: August 1995

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## Section 1 - Product and Company Identification

Company: Klüber Lubrication North America L.P.

32 Industrial Dr.

Londonderry, N.H. 03053

Phone: (603) 647-4104

Fax: (603) 647-4105

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

Product Use: Lubricating grease.

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## Section 2 - Composition/Information on Ingredients

Ingredient	TLV	PEL
Mineral oil	10mg/m <sup>3</sup> (oil mist)	10mg/m <sup>3</sup> (oil mist)
Synthetic hydrocarbon oil	N/Ap	N/Ap
Aluminum complex soap	N/Ap	N/Ap

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## 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.

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## 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.

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## 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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# Material Safety Data Sheet

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## Section 6 - Fire Fighting Measures

Flash point: N/Av

Method Used: ASTM D 92

Lower explosion limit: N/Av

Upper explosion limit: N/Av

Extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO<sub>2</sub>)

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.

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## 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.

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## 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.

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## 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 (H<sub>2</sub>O = 1): 0.92

Evaporation rate (ether = 1): N/Av

Appearance and odor: Light beige grease with a neutral odor

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## 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

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# Material Safety Data Sheet

Product name: PARALIQ GA 351 (#096020)

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## Section 11 - Toxicological Information

Acute toxicity: N/Av for this product.

Chronic toxicity: N/Av for this product.

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## 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.

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## Section 13- Transportation Information

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

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## Section 14 - Regulatory Information

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

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## 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