

Klübersynth® UH1 14-1600

Food grade lubricating grease



Description

Klübersynth UH1 14-1600 is a high-performance food grade lubricating grease especially developed for the food processing and pharmaceutical industries.

It complies with German food regulations and meets the requirements set forth in the "guidelines of sec. 21 CFR 178.3570 of FDA regulations". It has been authorized by the USDA for use in federally inspected meat and poultry plants (USDA H1).

With its soft consistency Klübersynth UH1 14-1600 is particularly suitable as a fluid gear grease providing good antiwear protection. It also ensures good protection against corrosion and is mineral hydrocarbon free.

It can also be dispensed through centralized single-line lubrication systems.

Before substituting Klübersynth UH1 14-1600 for other greases, thoroughly clean the lubrication/friction points. If the greases are miscible, relubrication is sufficient. In gears, however, used grease should be removed as far as possible.

Storage

2 years when stored carefully in the closed original container in a dry place.

Pack size

25 kg bucket

Klübersynth UH1 14-1600

- Excellent antiwear protection
- Pumpable in centralized systems
- Mineral hydrocarbon free
- Good resistance to water
- Special FZG test A/2.76/50, scuffing load stage 12
- Good protection against corrosion
- USDA H1 registration

Fields of application

Klübersynth UH1 14-1600 is especially suitable for applications in machines and installations used in the food processing and pharmaceutical industries where contact with the food product is technically unavoidable.

It is intended for use as a fluid gear grease for the immersion lubrication of toothed and worm gears, chains and toothed gearwheels operating more smoothly with a softer grease.

Application notes

Klübersynth UH1 14-1600 may be applied by brush, spatula, grease gun, or grease cartridge.

Product data

Colour	yellowish, transparent
Texture	homogeneous, fibred
Density, DIN 51 757 at 20 °C, g/cm ³	approx. 0.85
Drop point, DIN ISO 2176, °C	> 220
Worked penetration at 25 °C, DIN ISO 2137; 0.1 mm	400 to 430
Speed factor, (n x dm)	5 x 10 ⁵
Consistency, NLGI grade, DIN 51 818	00
Service temperature range, °C	-45 to 120
Flow pressure, DIN 51 805, at -60 °C, mbar	< 1000

Klübersynth[®] UH1 14-1600

Material Safety Data Sheet

Section I

Manufacturer's name: Klüber Lubrication München KG
 Chemical name and synonyms: Lubricating grease
 Trade name and synonyms: Klüberfluid UH1 14-1600
 Chemical family: Synthetic hydrocarbon oil, Al-complex 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

Complies with the regulations of the FDA 21 CFR 178.3570

Section III – Physical Data

Boiling point (°F):	n/a
Vapor pressure (mm Hg):	n/a
Vapor density (air=1):	n/a
Solubility in water:	not soluble
Specific gravity (H ₂ O=1):	approx. 0.85
Percent, volatile by volume (%):	0
Evaporation rate (____=1):	n/a
Appearance and odor:	yellowish, neutral

Section IV – Fire and Explosion Hazard Data

Flash point (method used): (base oil) > 200 °C ASTM D-92
 Flammable limits: – – Lel: Uel:
 Extinguishing media: Water fog, foam, dry chemical, CO₂
 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.

Section V – Health Hazard Data

Threshold limit value: n/a
Effects of overexposure:
 Eyes: Mild irritation
 Skin: n/a
 Ingestion: No more than slightly toxic if swallowed.
 Inhalation: n/a
Emergency and first aid procedures:
 Eyes: Flush with large amount of water.
 Ingestion: Do not induce vomiting.
 Contact doctor for directions.

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 lubricating grease.
 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
 Mechanical (general):
 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.
 n/a = not applicable

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