



745-9894 Grease

908 Garnet Court - New Lenox, IL 60451
815 722 2800 FAX 815 722 2831

MATERIAL SAFETY DATA SHEET

Klüber Lubrication North America L.P.
64 Wentworth Avenue
Londonderry, NH 03053-7437
Tel: (803) 434-7704
Fax: (803) 434-8046



1. PRODUCT INFORMATION AND USE:

Product Name: **Spiral Drive Grease**
KLUBERSYNTH UH1 14-1600
Product Use: Lubricating grease

24 Hour Emergency Phone:
CHEMTREC 1-800-424-9300

(Article Nr. 096038)

2. HAZARDOUS INGREDIENTS:

not applicable

WT PCT:
(APPROX.)

EXPOSURE LIMITS:
TLV - PPM

3. OTHER INGREDIENTS:

Synthetic hydrocarbon oil
Aluminum-complex soap thickener

not applicable
not applicable

4. PHYSICAL DATA:

Boiling Point (°C):	n/ap
Vapor Pressure (mm Hg.):	n/ap
Vapor density (air = 1):	n/ap
Solubility in water:	insoluble
Specific gravity (H ₂ O = 1):	0.92
Evaporation rate (ether = 1):	n/ap
Appearance and odor:	beige, neutral odor

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Not applicable

Method Used: ASTM D 92

Flammable Limits: n/ap

LFL:

UFL:

Extinguishing Media: Foam, carbon dioxide, dry chemical, and water fog.

Special fire Fighting Procedures: Use self-contained breathing apparatus for enclosed or confined spaces or as recommended needed. Do not use direct stream of water, materials may float and reignite.

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.

6. TOXICOLOGICAL PROPERTIES:

Eye Contact: May cause mild irritation upon direct contact.

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

Inhalation: Not expected to be a problem under normal conditions of use.

Ingestion: No acute or chronic effects expected. If swallowed, may cause irritation of the digestive tract.

7. EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush with large amounts of water. Seek medical attention if irritation or redness persists.

Skin: Wash exposed areas with soap and water. Remove contaminated clothing. Seek medical attention if irritation or infection occurs.

Inhalation: Not applicable

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



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PRODUCT NAME: KLUBERSYNTH UFI 14-1600

8. REACTIVITY DATA:

Stability (thermal, light, etc): Stable

Conditions to Avoid: Direct contact with open flames.

Incompatibility (materials to avoid): Strong oxidizers, such as pure oxygen.

Hazardous decomposition/incomplete combustion products: Fumes, smoke, carbon monoxide.

Hazardous Polymerization: Will not occur.

9. PREVENTIVE MEASURES:

Steps to be Taken in Case Material is Released or Spilled: Scoop up material and add absorbent if necessary. Collect product and absorbent, and place in a chemical waste container. Keep product out of waterways.

Eye Protection: Safety goggles recommended.

Skin Protection: Protective gloves recommended.

Respiratory Protection: Not necessary.

Ventilation: Under normal conditions of use, no special ventilation required.

Handling and Storing: Avoid prolonged or repeated contact with skin. Wash hands with soap and water prior to eating, drinking and smoking.

10. ENVIRONMENTAL AND REGULATORY CONTROLS:

Waste Disposal Method: Recovered lubricant must be disposed of or reclaimed in compliance with all federal, state and local regulations. Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether the product meets any of the criteria for a hazardous waste. Conditions of use may render the spent product as hazardous, under the criteria for characteristics of hazardous waste under EPA CFR 40, 261.20. Not hazardous by D.O.T. regulations.

11. PREPARATION INFORMATION:

Prepared by: Klüber Lubrication North America L.P.
Updated: August 1995



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KLUBERSYNTH UH1 14-1600
Food Grade Lubricating Grease

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54 Wentworth Avenue
Londonderry, NH 03053-7637
Tel: (603) 434-7704
Fax: (603) 424-8086



Major Applications:

- Fluid gear grease for the immersion lubrication of spur, helical and worm gears
- Chains and sprockets
- Pneumatic cylinders, cams, seals, etc.

Feature:

- High load carrying capacity
- Odorless and tasteless
- Resistant to hot and cold water, and disinfectant solutions
- Good corrosion protection
- Good pumpability
- Fully synthetic base oil

Benefit:

- Prevents premature wear
- Foodstuffs are unaffected by lubricant contact
- Resists washout
- Prevents rust
- Suitable for use in central lubrication systems
- High aging resistance, extended lubricant life

Method of Application: Manual and automatic lubrication equipment

Container Sizes:

1 kilogram can
25 kilogram pail



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Food Grade Lubricating Grease

Article #096038

4/26/96

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Tel: (603) 434-7704
Fax: (603) 434-8088

LUBRICATION

Technical Data:

<u>Characteristic</u>	<u>Typical Performance</u>	<u>Test Specification</u>
Base Oil	PAO	
Thickener	aluminum complex	
Structure	smooth, homogeneous	
Color	beige	
Specific Gravity, 20°C	0.85	
Service Temperature Range, (°C)	-60 to 120	
Drop Point, (°C)	> 220	ASTM D 568 (DIN 5182)
Worked Penetration at 25°C (0.1 mm)	415	ASTM D 217 (DIN ISO 2137)
NLGI Grade	00	DIN 51818
Speed Factor, (nD _m)	500,000	
Base Oil Viscosity, (mm ² /s) at 40°C	180	DIN 51561
Flow Pressure at -60°C, (mbar)	< 1000	DIN 51805
USDA Classification	H1	
Gear Load Test, FZG load stage	> 11	FZG (A/2, 76/50)
weight loss, (mg/KWh)	< 0.2	