

SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: RENOLIN KLFT 6K

Other means of identification: No data available.

Recommended use of the chemical and restrictions on use

Recommended use: Lubricating fluid

Recommended restrictions: Industrial use only

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Fuchs Lubricants Co.
Address: 17050 Lathrop Avenue
Harvey, Illinois 60426
Telephone: 708-333-8900
Fax: 708-333-9180

Contact Person: EHS Department
E-mail: sds@fuchs.com

Emergency telephone number: 708-333-8900 (Bus. hrs) 800-255-3924 (24 hrs)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 4

Health Hazards

Acute toxicity (Dermal) Category 5

Serious Eye Damage/Eye Irritation Category 2B

Unknown toxicity - Health

Acute toxicity, oral 1.09 %

Acute toxicity, dermal 1.09 %

Acute toxicity, inhalation, vapor 48.79 %

Acute toxicity, inhalation, dust
or mist 100 %

Label Elements

Hazard Symbol: No symbol

Signal Word: Warning

Hazard Statement:	H227: Combustible liquid. H313: May be harmful in contact with skin. H320: Causes eye irritation.
Precautionary Statements	
Prevention:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264: Wash face, hands and any exposed skin thoroughly after handling. P280: Wear protective gloves/ eye protection/ face protection.
Response:	P312: Call a POISON CENTER or doctor/ physician if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:	P403: Store in a well-ventilated place.
Disposal:	P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Asphalt	8052-42-4	40 - 70%
1-Propene, 2-methyl-, homopolymer	9003-27-4	30 - 60%
Distillates (petroleum), hydrotreated light	64742-47-8	10 - 30%
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	0.5 - 5%
Soybean oil	8001-22-7	0.1 - 1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation:	Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact:	Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, fog, CO₂, dry chemical, or regular foam. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

For non-emergency personnel: No data available.

For emergency responders:	No data available.
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal. In case of leakage, eliminate all ignition sources. Use non-sparking tools.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. Avoid contact with molten material.
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials. Store in a well-ventilated place. Store in a cool place. Flammable liquid storage.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Asphalt - Inhalable fraction. - as benzene solubles	VLE-PPT	0.5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Distillates (petroleum), hydrotreated light	VLE-PPT	200 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Soybean oil - Inhalable fraction.	VLE-PPT	10 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Soybean oil - Respirable fraction.	VLE-PPT	3 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Appropriate Engineering Controls	No data available.
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Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	No data available.
Other:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	No data available.
Color:	Black
Odor:	Mild petroleum/solvent
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	76.67 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	0.913

Solubility(ies)

Solubility in water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	> 22 mm ² /s (40 °C, Measured)

10. Stability and reactivity

Reactivity:	Not reactive during normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	None under normal conditions.
Conditions to avoid:	Avoid heat or contamination. Heat, sparks, flames.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	May be harmful if inhaled.
Skin Contact:	Causes mild skin irritation.
Eye contact:	Causes eye irritation.
Ingestion:	Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix (): > 5000 mg/kg

Dermal

Product: ATEmix (): 2000 - 5000 mg/kg

Inhalation

Product: No data available.

Specified substance(s):

Asphalt
LC 50 (Rat): > 94.4 mg/m³
LC 50 (Rat): 23.6 mg/l
LC 50 (Rat): > 94.4 mg/m³

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Asphalt
in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study
Distillates (petroleum),
hydrotreated light
in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Supporting study
in vivo (Rabbit): classification not possible based on data , 24 - 72 h
Experimental result, Supporting study
Distillates (petroleum),
solvent-dewaxed heavy
paraffinic
in vivo (Rabbit): Category 2 , 24 - 72 h Experimental result, Key study
in vivo (Rabbit): Not irritant , 24 h Experimental result, Supporting study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Asphalt
Rabbit, 7 d: Not irritant EU
Rabbit, 1 h: Not irritant EU
Rabbit, 72 h: Not irritant EU
Rabbit, 48 h: Not irritant EU
Rabbit, 1 h: Not irritant EU
Rabbit, 24 h: Not irritant EU
Rabbit, 24 h: Not irritant EU
Rabbit, 48 h: Not irritant EU
Rabbit, 48 h: Not irritant EU
Rabbit, 48 h: Not irritant EU
Rabbit, 24 h: Not irritant EU
Rabbit, 72 h: Not irritant EU
Rabbit, 24 h: Not irritant EU

Distillates (petroleum), hydrotreated light	Rabbit, 24 - 72 h: Not irritant EU
	Rabbit, 24 - 72 h: Not irritant EU
	Rabbit, 24 - 72 h: Not irritant EU
	Rabbit, 24 - 72 h: Not irritant EU
	Rabbit, 24 - 72 h: Not irritant EU
	Rabbit, 24 - 72 h: Not irritant EU
	Rabbit, 24 - 72 h: Not irritant EU

Distillates (petroleum), solvent-dewaxed heavy paraffinic	Rabbit, 24 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU
	Rabbit, 24 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Distillates (petroleum),
solvent-dewaxed heavy
paraffinic LC 50 (Fish, 96 h): > 100 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum),
solvent-dewaxed heavy
paraffinic EC50 (Daphnia, 48 h): > 100 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Distillates (petroleum),
solvent-dewaxed heavy
paraffinic EC50 (Green algae (Scenedesmus quadricauda), 72 h): > 100 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Asphalt	No data available.
1-Propene, 2-methyl-, homopolymer	No data available.
Distillates (petroleum), hydrotreated light	No data available.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No data available.
Soybean oil	No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT
Special precautions for user: Not Regulated.

IATA
Not Regulated.

IMDG
Not Regulated.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)
None present or none present in regulated quantities.

Mexico. Federal Law for the Control of Chemical Substances Susceptible to Diversion to Manufacturing of Chemical Weapons, Appendix 1: National list of chemical substances
Not applicable

Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)

Lead	none	Listed.
Arsenic		Listed.

Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)

Not applicable

Distillates (petroleum), hydrotreated light	Threshold: 4600. kg
Ethylene oxide	Threshold: 2300. kg

Mexico. Narcotic Drugs List (General Health Law, Articles 234 & 239, Feb. 7, 1984)

Not applicable

Mexico. Psychotropic Drugs (General Health Law, Feb. 7, 1984, Articles 245 & 254 Bis)

Not applicable

16. Other information, including date of preparation or last revision

Issue Date: 07/18/2024

Revision Information: 07/17/2024: ARGHS_MX

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.