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# SAFETY DATA SHEET

## 1. Identification

**Product name** RENOLIN KF SPEC X LIGHT

**Other means of identification** No data available.

**Recommended use:** Lubricating fluid

**Restrictions on use:** Industrial use only

### Manufacturer/Importer/Supplier/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@fuchsus.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 3

### Label Elements

#### Hazard Symbol:



**Signal Word:** Warning

**Hazard Statement:** Flammable liquid and vapor.

#### Precautionary Statements



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**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use water spray, CO<sub>2</sub>, dry chemical, or foam to extinguish.

**Storage:** Store in well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

## Unknown toxicity - Health

|  |         |
|--|---------|
| Acute toxicity, oral                     | 73.46 % |
| Acute toxicity, dermal                   | 2.25 %  |
| Acute toxicity, inhalation, vapor        | 7.78 %  |
| Acute toxicity, inhalation, dust or mist | 2.84 %  |

## 3. Composition/information on ingredients

### Hazardous Component(s):

| Chemical name   | CAS-No.      | Concentration |
|-----------------|--------------|---------------|
| Mineral oil     | Confidential | 60 - 100%     |
| Mineral spirits | Confidential | 5 - 10%       |

Specific chemical identities and/or exact percentages have been withheld as trade secrets.

## 4. First-aid measures

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

**Inhalation:** Move to fresh air. Call a POISON CENTER/doctor/.../if you feel unwell.

**Skin Contact:** Get medical attention if symptoms occur. Take off immediately all contaminated clothing. Rinse skin with water/shower.



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**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.

## Most important symptoms/effects, acute and delayed

**Symptoms:** 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:** Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

## Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, 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:** Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

## Special protective equipment and precautions for firefighters

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



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## Methods and material for containment and cleaning up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Eliminate all ignition sources if safe to do so. Dike far ahead of larger spill for later recovery and disposal. Use only 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:

Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. 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.

### Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Store in a cool place. Flammable liquid storage.

## 8. Exposure controls/personal protection

### Exposure Limits

| Chemical name   | type | Exposure Limit Values         | Source  |
|---|------|-------------------------------|---|
| Mineral oil - Mist.   | PEL  | 5 mg/m <sup>3</sup>           | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)           |
| Mineral oil - Mist.   | STEL | 10 mg/m <sup>3</sup>          | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)           |
| Mineral spirits - Non-aerosol. - as total hydrocarbon vapor | TWA  | 200 mg/m <sup>3</sup>         | US. ACGIH Threshold Limit Values (03 2012)                                  |
| Mineral spirits   | PEL  | 100 ppm 400 mg/m <sup>3</sup> | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016) |
| Mineral spirits   | TWA  | 100 ppm 400 mg/m <sup>3</sup> | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |

### Protective Measures:

Use explosion-proof ventilation equipment. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.

### Eye Protection:

Wear safety glasses with side shields (or goggles).

### Skin and Body Protection:

Wear chemical-resistant gloves, footwear, and protective clothing appropriate



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for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

## 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:**

40.56 °C (105.01 °F)

**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.

**Relative density:**

0.927

**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<sup>2</sup>/s (40 °C, Measured)

## 10. Stability and reactivity

**Reactivity:**

Not reactive during normal use.



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|  |   |
|--|---|
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions:</b> | None under normal conditions.   |
| <b>Conditions to avoid:</b>                | Heat, sparks, flames. Avoid heat or contamination.  |
| <b>Incompatible Materials:</b>             | No data available.  |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |  |
|----------------------|--|
| <b>Ingestion:</b>    | Harmful if swallowed. May be ingested by accident. Ingestion may cause irritation and malaise.   |
| <b>Inhalation:</b>   | Harmful if inhaled. Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| <b>Skin Contact:</b> | Prolonged skin contact may cause redness and irritation.   |
| <b>Eye contact:</b>  | Eye contact is possible and should be avoided.   |

### Symptoms related to the physical, chemical and toxicological characteristics

|                      |                    |
|----------------------|--------------------|
| <b>Ingestion:</b>    | No data available. |
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

|                   |  |
|-------------------|--|
| <b>Oral</b>       |  |
| <b>Product:</b>   | ATEmix (): 2000 - 5000 mg/kg                               |
| <b>Dermal</b>     |  |
| <b>Product:</b>   | ATEmix (): 2000 - 5000 mg/kg                               |
| <b>Inhalation</b> |  |
| <b>Product:</b>   | Not classified for acute toxicity based on available data. |



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## Repeated dose toxicity

**Product:** No data available.

## Skin Corrosion/Irritation

**Product:** No data available.

## Serious Eye Damage/Eye Irritation

**Product:** No data available.

## 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

### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

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.



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## 12. Ecological information

**General information:** This product has not been evaluated for ecological toxicity or other environmental effects.

## 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

|                               |  |
|-------------------------------|--|
| UN Number:                    | UN 1993  |
| UN Proper Shipping Name:      | Flammable liquids, n.o.s.(Petroleum distillates) |
| Transport Hazard Class(es)    |  |
| Class:                        | 3  |
| Label(s):                     | 3  |
| Packing Group:                | III  |
| Marine Pollutant:             | No   |
| Special precautions for user: | —  |

### IMDG

|                               |   |
|-------------------------------|---|
| UN Number:                    | UN 1993   |
| UN Proper Shipping Name:      | FLAMMABLE LIQUID, N.O.S.(Petroleum distillates) |
| Transport Hazard Class(es)    |   |
| Class:                        | 3   |
| Label(s):                     | 3   |
| EmS No.:                      | F-E, S-E  |
| Packing Group:                | III   |
| Marine Pollutant:             | Not regulated.                                  |
| Special precautions for user: | —   |

### IATA

|                             |   |
|-----------------------------|---|
| UN Number:                  | UN 1993   |
| Proper Shipping Name:       | Flammable liquid, n.o.s.(Petroleum distillates) |
| Transport Hazard Class(es): |   |
| Class:                      | 3   |
| Label(s):                   | 3   |
| Packing Group:              | III   |
| Environmental Hazards       | Not regulated.                                  |





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Special precautions for user: —  
Other information  
Passenger and cargo aircraft: Allowed.  
Cargo aircraft only: Allowed.

## 15. Regulatory information

### US Federal Regulations

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

##### Hazard categories

Fire Hazard

##### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

### US State Regulations

#### US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

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

**Issue Date:** 09.03.2017

**Revision Date:** 11.11.2016

**Version #:** 1.2

**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.