

### 1. Identification

Product name LUBRODAL F AL 3446 C

Other means of identification No data available.

Recommended use: Metalworking 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: msds@fuchs.com

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

### 2. Hazard(s) identification

#### **Hazard Classification**

**Health Hazards** 

Specific Target Organ Toxicity - Category 3

Single Exposure

## **Label Elements**

## **Hazard Symbol:**



Signal Word: Warning

**Hazard Statement:** May cause respiratory irritation.

Precautionary Statement



Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

well-ventilated area.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER/doctor if you feel unwell.

Storage: Store in well-ventilated place. Keep container tightly closed. Store locked

up.

**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:

None.

#### **Unknown toxicity Health**

Acute toxicity, inhalation, dust 78.6397 %

or mist

Acute toxicity, inhalation, vapor 95.234797 %
Acute toxicity, dermal 75.042497 %
Acute toxicity, oral 75.002397 %

### 3. Composition/information on ingredients

**Hazardous Component(s):** 

Chemical name	CAS-No.	Concentration
Graphite	7782-42-5	15 - 40%
Boric acid	10043-35-3	3 - 7%

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 or doctor if you feel unwell.

Do NOT induce vomiting.

**Inhalation:** Move to fresh air. Call a Poison Center or doctor if you feel unwell.

Skin Contact: Remove contaminated/saturated clothing and shoes. Wash contact areas

with soap and water. If skin irritation occurs: Get medical advice/attention.

**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 as appropriate or if symptoms persist.

5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

No data available.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Heat may cause the containers to pressurize and possibly rupture. During

fire, gases hazardous to health may be formed.

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 appropriate for

industrial fires.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Methods and material for

See Section 8 of the SDS for Personal Protective Equipment. Do not handle damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation.

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containment and cleaning up:

Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.

**Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or

sewer. Prevent further leakage or spillage if safe to do so and protect against releases into the environment. Remediate as appropriate.



### 7. Handling and storage

**Precautions for safe handling:** End-users should follow industry best practices for handling and using this

product.

Guidance may be found using the current version of ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible

and Straight Oil Metal Removal Fluids

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

expand and pressurize container.

Conditions for safe storage, including any incompatibilities:

Store in original tightly closed container. Avoid contact with oxidizing

agents. Store away from incompatible materials.

#### 8. Exposure controls/personal protection

#### **Exposure Limits**

Chemical name	type	Exposure Limit Values	Source
Graphite - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (03 2012)
Graphite - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Graphite - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Boric acid - Inhalable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (03 2012)
Boric acid - Inhalable fraction.	STEL	6 mg/m3	US. ACGIH Threshold Limit Values (03 2012)

Protective Measures: Use personal protective equipment as required.

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

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. Contaminated work clothing should not be allowed out of the workplace. Discard contaminated footwear that

cannot be cleaned. Avoid contact with skin, eyes, and clothing.



### 9. Physical and chemical properties

**Appearance** 

Physical state: Liquid

Form: No data available.

Color: Gray
Odor: Mild

Odor threshold: No data available.

**pH:** 9

Melting point/freezing point:No data available.Initial boiling point and boiling range:No data available.Flash Point:Not applicableEvaporation rate:No data available.Flammability (solid, gas):No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

Vapor density:

No data available.

No data available.

No data available.

No data available.

Relative density: 1.2

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
No data available.
Viscosity:
No data available.
No data available.
> 2 mm2/s (40 °C)

## 10. Stability and reactivity

**Reactivity:** Not reactive during normal use.

Chemical Stability: No data available.

**Possibility of Hazardous** 

Reactions:

None under normal conditions.

**Conditions to Avoid:** Avoid heat or contamination.

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**Incompatible Materials:** No data available.

**Hazardous Decomposition** 

Products:

formaldehyde

### 11. Toxicological information

Information on likely routes of exposure

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

**Inhalation:** Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** Prolonged skin contact may cause redness and irritation.

**Eye contact:** Eye contact is possible and should be avoided.

Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

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

**Dermal** 

**Product:** ATEmix (): > 5000 mg/kg

Inhalation

**Product:** Not classified for acute toxicity based on available data.

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.

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

This material is not subject to transport regulations.

#### 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**

Immediate (Acute) Health Hazards

## 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:** 27.05.2015

**Revision Date:** 08.05.2015

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.