

1. Identification		
Product name	LUBRODAL F 645 AFA	
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 -Single Exposure Category 3

### 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.

## Other hazards which do notNone.result in GHS classification:

### **Unknown toxicity Health**

Acute toxicity, inhalation, dust or mist	9.2513 %
Acute toxicity, inhalation, vapor	23.2251 %
Acute toxicity, dermal	8.3876 %
Acute toxicity, oral	8.2999 %

### 3. Composition/information on ingredients

### Hazardous Component(s):

Chemical name	CAS-No.	Concentration
Graphite	7782-42-5	10 - 30%
Inorganic silicate compound	Confidential	1 - 5%

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

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.

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 measure	S	
Personal precautions, protective equipment and emergency procedures:	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.	
Methods and material for 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
	Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. 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)	
Protective Measures:	Use perso	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 safe	Wear safety glasses with side shields (or goggles).		
Skin and Body Protection:	for the risk	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:	handling th wash work should not	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:	Black
Odor:	Characteristic
Odor threshold:	No data available.
pH:	11
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	Not applicable
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:	1.1
Solubility(ies)	
Solubility in water:	Soluble
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:	> 21 mm2/s (40 °C)
Other information	

VOC:

45.91 g/l

### 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.
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 e Ingestion:	<b>xposure</b> 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 physic Ingestion:	al, chemical and toxicological characteristics No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Information on toxicological effe	ects
Acute toxicity (list all possible	e routes of exposure)
Oral Product:	ATEmix (): > 5000 mg/kg
Dermal Product:	ATEmix (): > 5000 mg/kg
Inhalation Product:	ATEmix (, 4 h): > 5 mg/l Dusts, mists and fumes
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritati Product:	on No data available.
MSDS_US - R00000451530	



### 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 Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

### 12. Ecological information

### 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**

No component is regulated by CA Prop 65.

### 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:	<b>This information is provided without warranty</b> . 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.



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## SAFETY DATA SHEET