

# SAFETY DATA SHEET

### 1. Identification

Product identifier	LUBRODAL F 646
Other means of identification	No data available.
Recommended use:	Metalworking fluid
Restrictions on use:	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 identification

### **Hazard Classification**

### **Health Hazards**

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

### **Unknown toxicity - Health**

Acute toxicity, oral	3.44 %	
Acute toxicity, dermal	3.79 %	
Acute toxicity, inhalation, vapor	17.64 %	
Acute toxicity, inhalation, dust or mist	18.85 %	
% of the mixture consists of an ingredient or ingredients of unknown acute toxicity		

### Label Elements

### Hazard Symbol:



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Signal Word:	Warning
Hazard Statement:	Causes skin irritation. Causes serious eye irritation.
Precautionary Statements	
Prevention:	Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection.
Response:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Other hazards which do not result in GHS classification:	None.

### 3. Composition/information on ingredients

### **Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Graphite	Graphite,	7782-42-5	7 - 13%
Sodium silicate	Silicic acid, sodium salt,	1344-09-8	1 - 5%
Aluminum silicate	Aluminum silicate,	1332-58-7	0.1 - 1%
Triazine compound	Triazine compound,	4719-04-4	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

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
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.



Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.		
Most important symptoms/effect	s, 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:	No unusual fire or explosion hazards noted.		
Suitable (and unsuitable) exting	uishing media		
Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or regular foam. Use fire- extinguishing media appropriate for surrounding materials.		
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 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:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.		
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.		
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: 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. Wash hands thoroughly after handling. Do not get in eyes and avoid contact with skin and clothing. 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

### **Control Parameters**

### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Graphite - Respirable.	TWA	2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Graphite - Respirable.	TWA	2 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (09 2011)
Graphite - Respirable fraction.	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Graphite - Respirable fraction.	8 HR ACL	2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	4 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Graphite - Respirable dust.	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Graphite - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)
Aluminum silicate - Respirable.	TWA	2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Aluminum silicate - Respirable.	TWA	2 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (09 2011)
Aluminum silicate - Respirable fraction.	8 HR ACL	2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	4 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)



Aluminum silicate - Respirable fraction.	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)
Aluminum silicate - Respirable dust.	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
Aluminum silicate - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)

### Appropriate Engineering No data available. Controls

### Individual protection measures, such as personal protective equipment

General information:	Provide easy access to water supply and eye wash facilities. 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.
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. 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
Odor threshold:	No data available.
pH:	11.0
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.
Density:	No data available.
Relative density:	1.107
Solubility(ies)	
Solubility in water:	Miscible with water.
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:	> 2 mm2/s (40 °C)

# 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.
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:	Spray mist may irritate the respiratory system. Harmful if inhaled.
Skin Contact:	Causes skin irritation.
Eye contact:	Causes serious eye irritation.
Ingestion:	May be 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 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:	Vapour: ATEmix: > 20 mg/l Vapour
Delayed and immediate effects, Product:	including chronic effects from short- and long-term exposure No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritati Product:	on No data available.
Respiratory or Skin Sensitizatio Product:	<b>n</b> 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	
ACGIH Carcinogen List: 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 Toxic Product:	city - Single Exposure No data available.
Specific Target Organ Toxic Product:	city - Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	pneumoconiosis Lung cancer pulmonary fibrosis Skin irritation Eye irritation nausea dizziness headache eye damage Upper Respiratory Tract irritation

Larynx metaplasia

12. Ecological information		
Ecotoxicity:		
Acute hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
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.	
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.
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

### TDG

Not Regulated.

### IMDG

Not Regulated.

### ΙΑΤΑ

Not Regulated.

### 15. Regulatory information

### Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

None present or none present in regulated quantities.

### Export Control List (CEPA 1999, Schedule 3) Not Regulated

 National Pollutant Release Inventory (NPRI)

 Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional

 Reporting Requirements

 NPRI PT5
 None present or none

 present in regulated

 quantities.

 Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

 NPRI

 NPRI

### **Greenhouse Gases**

Not Regulated



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

Issue Date:	03/05/2024
Revision Date:	03/05/2024
Version #: Further Information:	1.4 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.