

1. Identification		
Product name		LUBRODAL F AL 4112
Other means of identification	n	No data available.
Recommended use:		Metalworking fluid
Restrictions on use:		Industrial use only
Manufacturer/Importer/Suppl	ier/Distributor Informatio	n
Manufacturer Company Name: Address: Telephone: Fax: Contact Person: E-mail: Emergency telephone number	Fuchs Lubricants Co. 17050 Lathrop Avenue Harvey, Illinois 60426 708-333-8900 708-333-9180 EHS Department sds@fuchsus.com)800-255-3924 (24 hrs)
2. Hazard(s) identification		
Hazard Classification	Not classified	
Label Elements		
Hazard Symbol:	No symbol	
Signal Word:	No signal word.	
Hazard Statement:	not applicable	
Precautionary Statements	not applicable	
Other hazards which do not result in GHS classification:	None.	
3. Composition/information on ingredients		



Hazardous Component(s):

Chemical name	CAS-No.	Concentration
Graphite	7782-42-5	20 - 50%
Petroleum distillate	Confidential	1 - 5%
Ethoxylated alcohol	Confidential	1 - 5%

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:	Remove contaminated 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/effect	cts, 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:	No unusual fire or explosion hazards noted.	
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:	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 a	nd 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 measure	s
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. 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. 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 Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Contains a component that when heated at or above 300F (150C) may generate Formaldehyde vapors. 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	3 US. ACGIH Threshold Limit Values (03 2012)
Graphite - Total dust.	PEL	15 mg/m3	B 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)
Graphite	TWA	15 millions o particles per cubic foot of ai	(2000)
Petroleum distillate - Mist.	PEL	5 mg/m3	B US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Petroleum distillate	PEL	100 ppm 400 mg/m3	 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Petroleum distillate	TWA	100 ppm 400 mg/m3	3 US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

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. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

- **Physical state:** liquid Form: No data available. Color: Gray Odor: Mild **Odor threshold:** No data available. pH: 9 SDS_US



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SAFETY DATA SHEET

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:	1.08
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:	> 21 mm2/s (40 °C)

Other information VOC:

0.01 g/l

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. formaldehyde

11. Toxicological information

Information on likely routes of exposure



Ingestion:	Harmful if swallowed. 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 physica 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 routes of exposure)		
Oral Product:	ATEmix (): > 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 Irritati Product:	on No data available.	
Respiratory or Skin Sensitizatio Product:	n 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	
General information:	This product has not been evaluated for ecological toxicity or other environmental effects.
13. Disposal consideration	S

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

Not regulated.

IMDG

Not regulated.

ΙΑΤΑ

Not regulated.

15. Regulatory information

US Federal Regulations

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

None present of none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories None

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

16.Other information, including date of preparation or last revision		
Issue Date:	23.02.2017	
Revision Date:	23.02.2017	
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.	