

In accordance with Globally Harmonized System of
Classification and Labelling of Chemicals (GHS)-
Chapter 1.5 and Annex 4

SAFETY DATA SHEET

Product: LUBRODAL AT CR 6-13

Revision: 04

Date: 2019/03/19

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US Distributor

1 - IDENTIFICATION

Fuchs Lubricants Co.

GHS Product identifier: LUBRODAL AT CR 6-13

17050 Lathrop Avenue

Other means of
identification: 506270

Harvey, IL 60426

Recommended use of the
chemical and restrictions
on use: MOULD RELEASER FOR FORGING.

(708) 333-8900

(800) 255-3924 24 hrs Emergency

Restrictions on use: There are not known restrictions on use of the product.

Supplier's details: FUCHS LUBRIFICANTES DO BRASIL LTDA.

Address: Via de acesso João de Góes, 1110, CEP: 06422-150, Barueri - SP - Brasil

Phone number(s): -

Emergency phone
number: (11) 4707-0510

2 - HAZARD IDENTIFICATION

Classification of the
substance or mixture: Skin Corrosion/Irritation - Category 2
Eye Damage/Irritation - Category 2A
Sensitization Skin - Category 1
Reproductive Toxicity - Category 1A

Classification system
adopted: Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United
Nations.

GHS label elements, including precautionary statements

Pictograms:



Signal word: DANGER

Hazard statement(s): H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H360 May damage fertility or the unborn child.

Precautionary
statement(s):

PREVENTION:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.

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P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing. And wash it before reuse.

STORAGE:

P405 Store locked up.

DISPOSAL:

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do
not result in
classification:

It is not expected that product presents specific hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

Components contributing
to the hazard:

Graphite (CAS 7782-42-5): 15.0 - 20.0%¹

Monoethanolamine (CAS 141-43-5): < 2.0%

Ethanol (CAS 64-17-5): < 1.0%

Industrial secret 1: < 1.0%; (Classification: H302; H317; H330; H372; H401)

Carboxymethylcellulose sodium (CAS 9004-32-4): < 1.0%¹

¹The ingredient do not contribute to the hazard, but has occupational exposure limit established according to Section 8.

4 - FIRST-AID MEASURES

Routes of exposure

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.

Skin:

Wash exposed skin with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this SDS.

Eye:

Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this SDS.

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Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Most important symptoms/effects, acute and delayed:	Causes irritation to skin redness, pain and dryness and with eyes Redness and pain. May cause an allergic skin reaction.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected site.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Appropriate: Compatible with foam, water mist, powder and carbon dioxide (CO ₂) Inappropriate: Water jet directly.
Specific hazards arising from the chemical:	The combustion or the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide. Vapors may be heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Containers may explode if heated.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Do not smoke. Avoid exposure to the product. If necessary, use personal protective equipment as described in Section 8.
For emergency responders:	Use protective equipment as described in Section 8.
Environmental precautions:	Avoid that the spilled material reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining product with dried sand, vermiculite or any other inert material. Put the adsorbed material in appropriate containers and remove them to a safe place. Use tools that do not cause sparks to collect absorbed material. For final destination, proceed pursuant to Section 13 of this SDS.

7 - HANDLING AND STORAGE

Precautions for safe handling

Safe handling of the substance or mixture:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom.

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Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	It is not expected that the product presents a fire or explosion hazard. Use personal protective equipment as described in Section 8.
Adequate conditions:	Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures. Keep stored at room temperature not exceeding 35°C (95°F).
Packaging compatibilities:	Similar to the original packaging.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit:	<u>-Graphite:</u> TLV - TWA (ACGIH, 2017): 2 mg/m ³ (R). <u>-Monoethanolamine:</u> TLV - TWA (ACGIH, 2015): 3 ppm TLV - STEL (ACGIH, 2015): 6 ppm. <u>-Ethanol:</u> TLV - STEL (ACGIH, 2015): 1000 ppm. <u>-Carboxymethylcellulose sodium¹:</u> TLV - TWA (ACGIH, 2012): 3 mg/m ³ (Fração respirável) (R) Respirable fraction. (LEL: Lower Explosive Limit)
	¹ For this ingredient, the occupational exposure limit must be evaluated only if dust is released during handling.
Biological limit:	Not established.
Other limits and values:	Not established.
Appropriate engineering controls:	Promote direct mechanical ventilation and exhaust system to the outside environment. These measures help reduce exposure to product.
Individual protection measures, such as personal protective equipment (PPE)	
Eye/face protection:	Safety glasses.
Skin protection:	Closed shoes and suitable protective clothing. Nitrile rubber or butyl rubber protective gloves.
Respiratory protection:	Specific respiratory protective is not required, however, in case of continuous exposure to high concentrations of respirable fraction of the product is recommend the use of respiratory protection.
Thermal hazards:	Does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	therefore
Odour:	Not available.
Melting point/freezing point:	Not available.

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Boiling point or initial
boiling point and boiling
range:

Not available.

Flammability:

Not applicable.

Lower and upper
explosion
limit/flammability limit:

Not available.

Flash point:

Not available.

Auto-ignition
temperature:

Not available.

Decomposition
temperature:

Not available.

pH:

10.6

Kinematic viscosity:

Not available.

Solubility:

Miscible in water.

Partition coefficient
n-octanol/water (log
value):

Not available.

Vapour pressure:

Not available

Density and/or relative
density:

1.2 at 20°C (68°F)

Relative vapour density:

Not available

Particle characteristics:

Not available

Other information:

Not applicable.

10 - STABILITY AND REACTIVITY

Reactivity: Reactivity is not expected under normal conditions of temperature and pressure.

Chemical stability: Product is stable under normal conditions of temperature and pressure.

Possibility of hazardous reactions: Monoethanolamine: Reacts with cellulose nitrate at risk of explosion. Ethanol: It can form explosive mixtures with the air. Risk of explosion in contact with alkaline metals, alkaline oxides and nitric acid. Sodium carboxymethylcellulose: It can form explosive mixtures in contact with the air.

Conditions to avoid: High temperatures. Contact with incompatible materials.

Incompatible material: 2,4-dinitrotoluene, sulphuric acid, acids, acrolein, oxidizing agents, reducing agents, aluminum, ammonia, fluorine, halogen, halogen hydrocarbons, alkaline metals and chloro trifluoride.

Hazardous decomposition products: Hazardous decomposition products are not known.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity: Product not classified as acute toxic.
Acute Toxicity Estimate (ATE)
ATEm (oral): > 5000 mg/kg
ATEm (dermal): > 5000 mg/kg
ATEm (inhalation, 4h): > 5 mg/L

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Skin corrosion/irritation:	Causes Skin Irritation with redness, pain and dryness.
Serious eye damage/irritation:	Causes Severe eye irritation with Redness and pain.
Respiratory or skin sensitization:	May cause an allergic skin reaction. It is not expected that the product presents sensitization respiratory.
Germ cell mutagenicity:	It is not expected that the product presents germ cell mutagenicity.
Carcinogenicity:	It is not expected that the product presents carcinogenicity.
Reproductive toxicity:	May damage fertility or the unborn child if swallowed.
STOT - Single exposure:	It is not expected that the product presents specific target organ toxicity by single exposure.
STOT - Repeated exposure:	It is expected that the product presents toxicity specific target organ toxicity by repeated exposure.
Aspiration Hazard:	It is not expected that the product presents aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity:	It is not expected that the product presents ecotoxicity.
Persistence and degradability:	Due to the lack of data, it is expected that the product presents persistence and it is not considered readily biodegradable.
Bioaccumulative potential:	Presents low bioaccumulative potencial in aquatic organisms. Information regarding to: -Industrial secret 1: log K _{ow} : -2.00
Mobility in soil:	Not determined.
Other adverse effects:	There are not known other environmental effects for this product.

13 - DISPOSAL CONSIDERATIONS

Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product. Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

14 - TRANSPORT INFORMATION

Road:	UN - "United Nations" Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations
Rail:	Convention concerning International Carriage by Rail (COTIF) Appendix C - Regulations concerning the International Carriage of Dangerous Goods by Rail - RID
Sea:	IMO - International Maritime Organization International Maritime Dangerous Goods Code (IMDG Code)
Air:	IATA - International Air Transport Association Dangerous Goods Regulation (DGR)
UN number:	Not classified as hazardous to transport in different modals.
Special precautions for user:	There is no need of special precautions.

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Transport in bulk
according to MARPOL
73/78, Annex II, and the
IBC Code:

Consult regulations:

- International Maritime Organization. MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006.
- International Maritime Organization. IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

SDS elaborated in March 2019.

Texts of Hazard statements (H) mentioned in section 3:

H302 Harmful if swallowed.

H330 Fatal if inhaled.

H372 Causes damage to respiratory system through repeated or prolonged exposure if inhaled..

H401 Toxic to aquatic life.

Change control:

Version	Publication Date	Changes
04	2019/03/19	New SDS layout

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists

CAS - Chemical Abstracts Service

LEL - Lower Explosive Limit

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TWA - Time Weighted Average

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