

## SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product name:** LUBRODAL AL 100/21

**Other means of identification:** For further information, please refer to section 9 of the SDS.

#### 1.2 Recommended use and restriction on use

**Recommended use:** Lubricant

**Restrictions on use:** No uses advised against identified.

#### 1.3 Details of the supplier of the safety data sheet

<b>Manufacturer / Supplier</b>	FUCHS LUBRICANTS GERMANY GmbH Friesenheimer Str. 19 68169 Mannheim
Telephone:	+49 621 3701-0 (ZENTRALE)
Fax:	+49 621 3701-570

**1.4 Emergency telephone number:** +49 621 3701-0 (Mo - Fr 08:00 am - 04:00 pm, GMT + 1)

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to the legislation in force.

##### Health Hazards

Serious Eye Damage/Eye Irritation	Category 2
Skin sensitizer	Category 1A

#### 2.2 Label Elements



**Signal Words:** Warning

**Hazard Statement(s):** H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.

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**Precautionary Statements**

**Prevention:** P262: Do not get in eyes, on skin, or on clothing.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

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

**2.3 Other hazards:** By handling of chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

**Unknown toxicity:** Due to information available product does not contain any ingredients of unknown toxicity.

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**3 COMPOSITION / INFORMATION ON INGREDIENTS**

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**3.2 Mixtures**

**General information:** Mixture of the substances listed below with harmless additions.

Chemical name	Identifier	Concentration (%w/w)	Notes
Fatty alcohol, ethoxylated	69011-36-5	0.50 - 1.50	
Isothiazolone derivative	2682-20-4	0.00 - 0.10	

A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

Chemical name	Identifier	Classification
Fatty alcohol, ethoxylated	69011-36-5	Eye Dam. 1;H318, Acute Tox. 4;H302
Isothiazolone derivative	2682-20-4	Acute Tox. 2;H330, Acute Tox. 3;H311, Acute Tox. 3;H301, Skin Corr. 1B;H314, Eye Dam. 1;H318, Skin Sens. 1A;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1

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**4 FIRST AID MEASURES**

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**General:** Instantly remove any clothing soiled by the product.

**4.1 Description of first aid measures**

**Inhalation:** Supply fresh air; consult doctor in case of symptoms.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

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**Skin Contact:** Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** Suspected to cause hypersensitivity and allergy. Causes serious eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed** Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General Fire Hazards:** None (non-combustible). Use fire fighting measures that suit the environment.

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials. CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

**Unsuitable extinguishing media:** Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture:** No data available.

### 5.3 Advice for firefighters

**Special fire-fighting procedures:** Generally this product is not burnable on account of its water content.

**Special protective equipment for fire-fighters:** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** In case of spills, beware of slippery floors and surfaces.

**6.2 Environmental Precautions:** Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

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**6.4 Reference to other sections:**

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

## SECTION 7: Handling and storage:

**7.1 Precautions for safe handling:**

Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. Provide adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities:**

Local regulations concerning handling and storage of waterpolluting products have to be followed. Local regulations concerning handling and storage of waterpolluting products have to be followed.

**7.3 Specific end use(s):**

Not applicable

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1.Exposure Limits**

None of the components have assigned exposure limits.

**8.2.Exposure controls**

**Appropriate engineering controls:**

Provide adequate ventilation. 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.

**Individual protection measures, such as personal protective equipment (PPE)**

**General information:**

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

**Eye/face protection:**

Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

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**Skin protection****Hand Protection:**

Material: Nitrile butyl rubber (NBR).  
Min. Breakthrough time:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0.38$  mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Other:**

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

**Respiratory Protection:**

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

**Thermal hazards:**

No data available.

**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.

**Environmental Controls:**

No data available.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>
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**9.1 Information on basic physical and chemical properties****Appearance****Physical state:**

liquid

**Form:**

liquid

**Color:**

White

**Odor:**

Characteristic

**Odor Threshold:**

Not applicable for mixtures

**pH:**

$> 8.5$

**Freezing point:**

Not applicable for mixtures

**Boiling Point:**

Value not relevant for classification

**Flash Point:**

Not applicable

**Evaporation Rate:**

Not applicable for mixtures

**Flammability (solid, gas):**

Value not relevant for classification

**Explosion Limit - Upper (%):**

Not applicable for mixtures

**Explosion Limit - Lower (%):**

Not applicable for mixtures

**Vapor pressure:**

Not applicable for mixtures

**Relative vapor density:**

Not applicable for mixtures

**Relative density:**

$> 0.98$  g/cm<sup>3</sup>

**Solubility(ies)****Solubility in Water:**

Miscible with water.

**Solubility (other):**

No data available.

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<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Auto-ignition temperature:</b>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification
<b>Kinematic viscosity:</b>	< 50 mm <sup>2</sup> /s (20 °C)
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification
<b>9.2 Other information</b>	No data available.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity:</b>	Stable under normal use conditions.
<b>10.2 Chemical Stability:</b>	Stable under normal use conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Stable under normal use conditions.
<b>10.4 Conditions to avoid:</b>	Stable under normal use conditions.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing substances. Strong acids. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

**11 TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	May cause an allergic skin reaction.
<b>Eye contact:</b>	Causes eye irritation.

**Acute toxicity****Oral**

<b>Product:</b>	ATEmix: 25,000 mg/kg
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**Specified substance(s)**

Fatty alcohol, ethoxylated	LD 50 (Rat): > 300 - 2,000 mg/kg
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**Dermal****Product:**

Not classified for acute toxicity based on available data.

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**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Skin Corrosion/Irritation:**

**Product:**

Based on available data, the classification criteria are not met.

**Serious Eye Damage/Eye Irritation:**

**Product:**

Based on available data, the classification criteria are met.

**Respiratory or Skin Sensitization:**

**Product:**

Skin sensitizer: Based on available data, the classification criteria are met.  
Respiratory sensitizer: Based on available data, the classification criteria are not met.

**Specified substance(s)**

Fatty alcohol, ethoxylated

No sensitizing effect (guinea pig); OECD 406

Isothiazolone derivative

, OECD 429 (Mouse)sensitizing

**Germ Cell Mutagenicity**

**Product:**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:**

Based on available data, the classification criteria are not met.

**IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**NTP: US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**ACGIH: US.ACGIH Threshold Limit Values:**

No carcinogenic components identified

**Reproductive toxicity**

**Product:**

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure**

**Product:**

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:**

Based on available data, the classification criteria are not met.

**Aspiration Hazard**

**Product:**

Based on available data, the classification criteria are not met.

**12 ECOLOGICAL INFORMATION**

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**Product name:** LUBRODAL AL 100/21

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**General information:** Not applicable

## 12.1 Toxicity

### Acute toxicity

**Product:** Based on available data, the classification criteria are not met.

#### Fish

##### Specified substance(s)

Fatty alcohol, ethoxylated LC 50 (Fish, 96 h): 1.1 mg/l

#### Aquatic Invertebrates

##### Specified substance(s)

Fatty alcohol, ethoxylated EC 50 (Water Flea, 48 h): 1.1 mg/l

### Chronic Toxicity

**Product:** Based on available data, the classification criteria are not met.

#### Toxicity to Aquatic Plants

##### Specified substance(s)

Fatty alcohol, ethoxylated EC 50 (Alga, 72 h): 1.1 mg/l

## 12.2 Persistence and Degradability

### Biodegradation

**Product:** Not applicable for mixtures

#### Specified substance(s)

Fatty alcohol, ethoxylated 79.3 % (28 d, OECD 301D) The product is readily biodegradable.

Isothiazolone derivative Not readily degradable.

## 12.3 Bioaccumulative potential

**Product:** Not applicable for mixtures

## 12.4 Mobility in soil:

**Product:** Not applicable for mixtures

## 12.5 Results of PBT and vPvB assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 Other adverse effects:** No data available.

## 13 Disposal considerations

### 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.



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**14 TRANSPORT INFORMATION****TDG**

Not Regulated.

**IMDG - International Maritime Dangerous Goods Code**

Not Regulated.

**IATA**

Not Regulated.

**Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable.**15 REGULATORY INFORMATION****Inventory Status**

DSL	On or in compliance with the inventory
TSCA	On or in compliance with the inventory

**16 OTHER INFORMATION****Revision Information:** Vertical lines in the margin indicate an amendment.**Wording of the H-statements in section 2 and 3**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Revision Date:** 11.04.2025

**Disclaimer:** The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.

**Abbreviations and acronyms:**

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**Product name:** LUBRODAL AL 100/21

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative