

**Safety Data Sheet****ADDINOL Liquid Grease SGR 4-00-9 P**

Revision date: 07/21/2022

Product code: 717042

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**1. Identification****Product identifier**

ADDINOL Liquid Grease SGR 4-00-9 P

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Lubricant and additive.

**Details of the supplier of the safety data sheet****Manufacturer**

Company name:	ADDINOL Lube Oil GmbH	
	Gebäude 4609	
Street:	Am Haupttor	
Place:	D-06237 Leuna	
Telephone:	+49 (0) 3461 845-0	Telefax: +49 (0) 3461 845-555
e-mail:	info@addinol.de	
Contact person:	Application Technology	
Internet:	www.addinol.de	
Responsible Department:	ADDINOL Application Technology	

**Supplier**

Company name:	ADDINOL Lube Oil GmbH
Street:	Am Haupttor, D - 06237 Leuna
Telephone:	+1 647 939 9938
e-mail:	laura.nelson@addinol.de

**Emergency phone number:** +16479399938 available Mon - Fri, 8:00 am to 4:30 pm EST**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**Label elements****Regulation (EC) No 1272/2008****Special labelling of certain mixtures**

EUH208	Contains Zinc naphthenate, Di-Tert-Dodecyl Polysulphide. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Additional advice on labelling**

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

**Hazards not otherwise classified**

No risks worthy of mention.

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Lithium saponified mineral oil based grease with EP additives.

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## Hazardous components

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
12001-85-3	Zinc naphthenate			0.5 - < 1 %
	234-409-2			
	Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H319 H317 H411			
68425-15-0	Di-Tert-Dodecyl Polysulphide			0.5 - < 1 %
	270-335-7		01-2119540516-41	
	Skin Sens. 1B; H317			

Full text of H and EUH statements: see section 16.

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
12001-85-3	234-409-2	Zinc naphthenate	0.5 %
		oral: LD50 = > 2000 mg/kg	
68425-15-0	270-335-7	Di-Tert-Dodecyl Polysulphide	0.5 %
		inhalation: LC50 = > 15,5 mg/l (vapours); dermal: LD50 = 2000 mg/kg; oral: LD50 = 19500 mg/kg	

## Further Information

DMSO-Extrakt &lt; 3 %, IP 346.

Classification system: The classification corresponds to the current US lists and is completed by information from specialist literature and company information.

## 4. First-aid measures

Description of first aid measures

## General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

## After inhalation

Provide fresh air. not applicable

## After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Use skin protection ointment after cleaning.

## After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

## 5. Fire-fighting measures

Extinguishing media

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**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Sand. alcohol resistant foam

**Unsuitable extinguishing media**

Water.

**Specific hazards arising from the chemical**

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>). Sulphur oxides carbon black.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures****General advice**

High slip hazard because of leaking or spilled product. Avoid contact with skin, eye and clothing. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****Other information**

Take up mechanically. Dispose of waste according to applicable legislation. Clean contaminated articles and floor according to the environmental legislation.

**Reference to other sections**

Refer to the provisions listed in Sections 8, 12 and 13.

## 7. Handling and storage

**Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eye and clothing.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**Advice on general occupational hygiene**

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep container tightly closed in a cool place.

**Hints on joint storage**

Keep away from food, drink and animal feed.

Keep away from: Oxidizing agents.

**Further information on storage conditions**

Protect against: UV-radiation/sunlight. Frost.

Recommended storage temperature: 5 - 40°C

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**Specific end use(s)**

Further information: see technical data sheet.

**8. Exposure controls/personal protection****Control parameters****DNEL/DMEL values**

CAS No.	Substance			
DNEL type		Exposure route	Effect	Value
12001-85-3	Zinc naphthenate			
Worker DNEL, long-term		inhalation	systemic	1,18 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3,3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,29 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1,7 mg/kg bw/day
68425-15-0	Di-Tert-Dodecyl Polysulphide			
Worker DNEL, long-term		inhalation	systemic	23,5 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	33,3 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,66 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	16,6 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	5,8 mg/m <sup>3</sup>

**PNEC values**

CAS No.	Substance		
Environmental compartment			Value
12001-85-3	Zinc naphthenate		
Freshwater			0,004 mg/l
Freshwater (intermittent releases)			0,04 mg/l
Marine water			0 mg/l
Freshwater sediment			0,015 mg/kg
Marine sediment			0,002 mg/kg
Micro-organisms in sewage treatment plants (STP)			0,6897 mg/l
Soil			0,001 mg/kg

**Additional advice on limit values**

The product does not contain any relevant quantities of substances with legally established exposure limitation.

**Exposure controls****Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

**Hand protection**

Tested protective gloves must be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

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Duration of wearing with permanent contact: 480 min  
 Suitable material: NBR (Nitrile rubber)  
 Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min  
 Suitable material: NBR (Nitrile rubber)  
 Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

**Skin protection**

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Color: light brown

Odor: characteristic

**Test method****Changes in the physical state**

Melting point/freezing point: > 120 °C

Boiling point or initial boiling point and boiling range: > 250 °C

Drop point/drop range: >180 °C DIN ISO 2176

Flash point: > 200 °C DIN EN ISO 2592

**Flammability**

Solid/liquid: No data available

Gas: No data available

**Explosive properties**

not Explosive.

Lower explosion limits: No data available

Upper explosion limits: No data available

Auto-ignition temperature: No data available

**Self-ignition temperature**

Gas: No data available

Decomposition temperature: No data available

pH-Value: No data available

Viscosity / kinematic: 200 mm<sup>2</sup>/s DIN 51562 - Base oil  
 (at 40 °C)

Water solubility: practically insoluble.

**Solubility in other solvents**

No data available

Partition coefficient n-octanol/water: No data available

Vapor pressure: No data available

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Density (at 20 °C):

0,93 g/cm<sup>3</sup> DIN 51757

Relative vapour density:

No data available

**Other information****Information with regard to physical hazard classes**

Oxidizing properties

No data available

**Other safety characteristics**

Evaporation rate:

No data available

**Further Information**

No data available

**10. Stability and reactivity****Reactivity**

The product is stable under storage at normal ambient temperatures.

**Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**Possibility of hazardous reactions**

No known hazardous reactions.

**Conditions to avoid**

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

**Incompatible materials**

Reacts with: Oxidizing agents, strong.

**Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>). Sulphur oxides carbon black.**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

No data available

Mixture not tested.

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
12001-85-3	Zinc naphthenate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2018)	OECD Guideline 423
68425-15-0	Di-Tert-Dodecyl Polysulphide				
	oral	LD50 19500 mg/kg	Rat	OECD 401	
	dermal	LD50 2000 mg/kg	Rat	OECD 402	
	inhalation (4 h) vapour	LC50 > 15,5 mg/l	Rat	OECD 403	

**Irritation and corrosivity**

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

Irritant effect on the eye: non-irritant.

Irritant effect on the skin: Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

**Sensitizing effects**

Contains Zinc naphthenate, Di-Tert-Dodecyl Polysulphide. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

No data available

**Specific target organ toxicity (STOT) - single exposure**

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

**Specific target organ toxicity (STOT) - repeated exposure**

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

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No data available

**Information on other hazards****Endocrine disrupting properties**

not applicable

**Further information**

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

**12. Ecological information****Ecotoxicity**

No data available

Mixture not tested.

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CAS No	Components					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
12001-85-3	Zinc naphthenate					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Cyprinus carpio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 4 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 35 mg/l	48 h		REACH Registration Dossier	OECD Guideline 202
	Acute bacteria toxicity	(EC50 5,2 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Water research volume 17, nr10, 1363-136	OECD Guideline 209
68425-15-0	Di-Tert-Dodecyl Polysulphide					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio (zebrafish)	OECD 203	
	Acute algae toxicity	ErC50 < 0,08 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50 < 0,1 mg/l	48 h			

**Persistence and degradability**

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

**Bioaccumulative potential**

No data available

**Partition coefficient n-octanol/water**

CAS No	Components	Log Pow
12001-85-3	Zinc naphthenate	0,8
68425-15-0	Di-Tert-Dodecyl Polysulphide	6,2

**BCF**

CAS No	Components	BCF	Species	Source
12001-85-3	Zinc naphthenate	69,48	Capoeta fusca	Water Qual Expo Heal

**Mobility in soil**

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other adverse effects**

No data available

**Further information**

Do not allow uncontrolled discharge of product into the environment.

**13. Disposal considerations**



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**Waste treatment methods****Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be disposed of.

**14. Transport information****Land transport (ADR/RID)**

UN number or ID number: -  
UN proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

**Inland waterways transport (ADN)**

UN number or ID number: -  
UN proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

**Marine transport (IMDG)**

UN number or ID number: -  
UN proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

**Air transport (ICAO-TI/IATA-DGR)**

UN number or ID number: -  
UN proper shipping name: -  
Transport hazard class(es): -  
Packing group: -

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No dangerous good in sense of these transport regulations.

**15. Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 2,11.

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## Relevant H statements (full text)

H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains Zinc naphthenate, Di-Tert-Dodecyl Polysulphide. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

## Other data

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN - European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

These given data only refer to the named product. If the product is used together with other materials or in manufacturing processes the data might not be applicable any more. The data are based on today's state of our knowledge and experience. They are, however, no guarantee of any specific product properties and do not established any legally valid contractual relationship.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*