

# FAG Arcanol LOAD150

**Safety Data Sheet (SDS) conforms to ANSI Z400.1/Z129.1-2010 (29 CFR 1910) (US)**

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

<b>Product identifier</b>	<b>FAG Arcanol LOAD150</b>
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	Lubricant
<b>Company</b>	Schaeffler Technologies AG & Co. KG Georg-Schäfer-Str. 30 97421 Schweinfurt / GERMANY Phone +49 (0)9721 91 - 0 Homepage <a href="http://www.schaeffler.com">www.schaeffler.com</a>
<b>Address enquiries to</b>	
<b>Emergency telephone number</b>	+49 (0)89-19240 (24h) (English)
<b>Advisory body</b>	
<b>Technical information</b>	wolzwlf@schaeffler.com
<b>Safety Data Sheet</b>	sdb@chemiebuero.de
<b>Registration number</b>	not applicable keine

## SECTION 2: Hazards identification

### Emergency Overview

<b>Appearance, Odor:</b>	pasty, red, characteristic  HARMFUL TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT
<b>OSHA Regulatory Status</b>	This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.
<b>Potential health effects</b>	High Pressure Applications. Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.
<b>Potential environmental effects</b>	Does not contain any PBT or vPvB substances.

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## SECTION 3: Composition / Information on ingredients

The product is a mixture.

Range [%]	Substance
< 3	2,2,4-Trimethyl-1,2-dihydroquinoline, polymerizate CAS: 26780-96-1
< 3	Alkyl thiadiazole CAS: 91648-65-6
< 2,4	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts CAS: 68457-79-4
< 2,4	Zinc naphthenate CAS: 84418-50-8
< 2,4	Naphthenic acids, zinc salts CAS: 12001-85-3

**Comment on component parts** It does not contain a component of the PRTR register (Pollutant Release and Transfer Register).  
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

<b>Description of first aid measures</b>	Change soaked clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Seek medical advice immediately. Do not induce vomiting.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically. Forward this sheet to the doctor. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

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## SECTION 5: Fire-fighting measures

<b>Suitable extinguishing media</b>	Foam. Dry powder. Water spray jet. Carbon dioxide.
<b>Extinguishing media that must not be used</b>	Full water jet.
<b>Special exposure hazards arising from the substance or preparation itself or combustion products</b>	Risk of formation of toxic pyrolysis products.
<b>Special protective equipment for firefighters</b>	Use self-contained breathing apparatus.
<b>Additional information</b>	Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## SECTION 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	High risk of slipping due to leakage/spillage of product. Forms slippery surfaces with water.
<b>Environmental precautions</b>	Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).
<b>Methods and material for containment and cleaning up</b>	Take up mechanically. Dispose of absorbed material in accordance within the regulations.

## SECTION 7: Handling and storage

<b>Precautions for safe handling</b>	Use only in well-ventilated areas. No special measures necessary if used correctly.
<b>Advice on protection against fire and explosion</b>	The product is combustible.
<b>Requirements for storage rooms and vessels</b>	Keep only in original container.
<b>Advice on storage compatibility</b>	Do not store together with oxidizing agents.
<b>Further information on storage conditions</b>	Keep container tightly closed. Keep away from frost. Keep in a cool place. Store in a dry place.

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## SECTION 8: Exposure controls / personal protection

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Ingredients with occupational exposure limits to be monitored (US)</b>	not applicable
<b>Respiratory protection</b>	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,5 mm; Butyl rubber, >120 min (EN 374-1/-2/-3).
<b>Eye protection</b>	If there is a risk of splashing: Safety glasses. (EN 166:2001)
<b>Skin protection</b>	not applicable
<b>General protective measures</b>	Avoid contact with eyes and skin.
<b>Hygiene measures</b>	Wash hands before breaks and after work. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets. Do not eat, drink or smoke when using this product.
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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## SECTION 9: Physical and chemical properties

Form	pasty
Color	red
Odor	characteristic
pH-value	00.29
pH-value [1%]	00.29
Boiling point [°C]	No information available.
Flash point [°C]	> 200 (392°F)
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	ca. 1 Vol.%
Upper explosion limit	ca. 10 Vol.%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	< 0.0005 (20°C, 68°F)
Density [g/ml]	ca. 0.9 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	> 6
Viscosity	00.29
Relative vapour density determined in air	> 1
Evaporation speed	00.29
Melting point [°C]	> 240 (464°F)
Autoignition temperature [°C]	> 320 (608°F)
Decomposition temperature [°C]	No information available.

## SECTION 10: Stability and reactivity

Reactivity	No dangerous reactions known if used as directed.
Chemical stability	Stable under normal ambient conditions (ambient temperature).
Possibility of hazardous reactions	Reactions with oxidizing agents. If product is heated above decomposition temperature toxic vapours may be released.
Conditions to avoid	Strong heating.
Incompatible materials	Strong oxidizing agent.
Hazardous decomposition products	No hazardous decomposition products known.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product	
LD50, dermal, Rabbit: > 5000 mg/kg bw.	
LD50, oral, Rat: > 5000 mg/kg bw.	
Substance	
2,2,4-Trimethyl-1,2-dihydroquinoline, polymerizate, CAS: 26780-96-1	
LD50, dermal, Rabbit: > 5010 mg/kg.	
LD50, oral, Rat: 2225 mg/kg.	
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts, CAS: 68457-79-4	
LD50, dermal, Rat: 20000 mg/kg.	
LD50, oral, Rat: 3600 mg/kg.	
Alkyl thiaziazole, CAS: 91648-65-6	
LD50, oral, Rat (female): 6176 mg/kg bw.	

<b>Acute oral toxicity</b>	not determined
<b>Acute dermal toxicity</b>	not determined
<b>Acute inhalational toxicity</b>	not determined
<b>Serious eye damage/irritation</b>	Slight irritant effect. Based on the available information, the classification criteria are not fulfilled.
<b>Skin corrosion/irritation</b>	Slight irritant effect. Based on the available information, the classification criteria are not fulfilled.
<b>Respiratory or skin sensitisation</b>	No sensitizing effects known. Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	No mutagenous properties. Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	No reprotoxic properties known. Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	No cancerogenic properties known Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled. 00.27

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**General remarks** Toxicological data of complete product are not available.  
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

## SECTION 12: Ecological information

### Toxicity

Product
LL50, Daphnia magna: 10 - 100 mg/l.
LL50, fish: 10 - 100 mg/l.
Substance
2,2,4-Trimethyl-1,2-dihydroquinoline, polymerizate, CAS: 26780-96-1
LC50, (96h), Lepomis macrochirus: 54 mg/l.
EC50, (48h), Daphnia magna: 5,8 mg/l.
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts, CAS: 68457-79-4
LC50, (96h), fish: 4,5 mg/l (OECD 203).
EC50, (48h), Daphnia magna: 5,4 mg/l (OECD 202).
Alkyl thiadiazole, CAS: 91648-65-6
LL50, (96h), fish: > 1000 mg/l.

**Fish toxicity** not determined  
**Daphnia toxicity** not determined  
**Behaviour in environment compartments** not determined  
**Behaviour in sewage plant** not determined  
**Bacteria toxicity** not determined  
**Biological degradability** The product is not readily biodegradable.  
**COD** not determined  
**BOD 5** not determined  
**AOX-advice** not applicable  
**2006/11/EC:** yes  
**Other adverse effects** The product is insoluble in water.  
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

**Product** Disposal in an incineration plant in accordance with the regulations of the local authorities.  
In according to RoHS!

**Contaminated packaging** Uncontaminated packaging may be taken for recycling.  
Uncontaminated packaging may be reused.

**RCRA Hazard Class (40CFR 261)** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

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## SECTION 14: Transport information

<b>Transport by land according to ADR/RID</b>	NO DANGEROUS GOODS
<b>Inland navigation (ADN)</b>	NO DANGEROUS GOODS
<b>Marine transport in accordance with IMDG</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
<b>Air transport in accordance with IATA</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
<b>DOT Road Shipment Information (49 CFR)</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"

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## SECTION 15: Regulatory information

**Observe employment restrictions for people** no

### US Regulations

#### National regulations

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302

This product does not contain any ingredients regulated under this list.

- SARA, 311

This product does not contain any ingredients regulated under this list.

- SARA, 313

This product contain one ingredient regulated under this list.  
1.6 % Zinc dialkyl dithiophosphate (CAS 68649-42-3)

- CA Proposition 65

No chemical substances in this material are named on the California P65 list.

- TSCA

No components require labeling under California Proposition 65.

- FDA

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

not determined

**American Conference of Governmental Industrial Hygienists - ACGIH**

Ingredients not listed as carcinogens.

**International Agency for Research on Cancer IARC**

Ingredients not listed as carcinogens.

**National Toxicology Program - NTP** not applicable

**HAP-VOC** not applicable

**Transport-regulations**

ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

**Other Right to Know Laws**

### EC Regulations

1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

**Hazard pictograms**

none

**Signal word**

none

**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

**Labelling**

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard symbols**

none

**R-phrases**

**S-phrases**

**Special labelling**

**Emergency Overview**

HARMFUL TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

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## SECTION 16: Other information

### HMIS Ratings

HEALTH	0	0 - Minimal Hazard
FLAMMABILITY	1	1 - Slight Hazard
PHYSICAL HAZARD	0	0 - Minimal Hazard
PERSONAL PROTECTION	A	A - Safety Glasses

### NFPA Ratings

1	
0	0
-	

Modified position none