

FAG Arcanol TEMP110

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

Date printed 10.08.2015, Revision 10.08.2015

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SECTION 1: Identification of the substance/mixture and of the company/undertakin

Product identifier	FAG Arcanol TEMP110
Relevant identified uses of the substance or mixture and uses advised against	Lubricant
Company	Schaeffler Technologies AG & Co. KG Georg-Schäfer-Str. 30 97421 Schweinfurt / GERMANY Phone +49 (0)9721 91 4681 Fax +49 (0)9721 91 1766 Homepage www.schaeffler.com E-mail wolzwl@schaeffler.com
Address enquiries to	
Emergency telephone number	+49 (0)89-19240 (24h) (english)
Advisory body	
Technical information	wolzwl@schaeffler.com
Safety Data Sheet	sdb@chemiebuero.de

SECTION 2: Hazards identification

Emergency Overview	
Appearance, Odor:	Grease, amber colour, characteristic
OSHA Regulatory Status	This product is classified as non-hazardous in accordance to OSHA Standard 29 CFR 1910.1200.
Potential health effects	Frequent persistent contact with the skin can cause skin irritation.
Potential environmental effects	Does not contain any PBT or vPvB substances.

SECTION 3: Composition / Information on ingredients

The product is a mixture.

Range [%]	Substance
1 - <2,5	Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate CAS: 71735-74-5
1 - <2,5	1,2-Dihydro-2,2,4-trimethylquinoline homopolymer CAS: 26780-96-1
1 - <2,5	O,O,O-Triphenyl phosphorothioate CAS: 597-82-0

Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements: see SECTION 16.
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SECTION 4: First aid measures

Description of first aid measures	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	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.
Ingestion	Seek medical advice immediately. Do not induce vomiting.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	High risk of slipping due to leakage/spillage of product. Forms slippery surfaces with water.
Environmental precautions	Do not discharge into the drains/surface waters/groundwater.
Methods and material for containment and cleaning up	Take up mechanically. Dispose of absorbed material in accordance within the regulations.

SECTION 7: Handling and storage

Precautions for safe handling	Use only in well-ventilated areas. No special measures necessary if used correctly.
Requirements for storage rooms and vessels	Keep only in original container. Prevent penetration into the ground.
Advice on storage compatibility	Do not store together with oxidizing agents. Do not store together with food and animal food/diet.
Further information on storage conditions	Keep container tightly closed.

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SECTION 8: Exposure controls / personal protection

Additional advice on system design	Ensure adequate ventilation on workstation.
Ingredients with occupational exposure limits to be monitored (US)	not applicable
Respiratory protection	not applicable
Hand protection	Butyl rubber, >120 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
Eye protection	Safety glasses.
Skin protection	light protective clothing
General protective measures	Avoid contact with eyes and skin.
Hygiene measures	Wash hands before breaks and after work. Use barrier skin cream. Do not eat, drink or smoke when using this product.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

Form	Grease
Color	amber colour
Odor	characteristic
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	> 100
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,01 (DIN 51757) (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

SECTION 10: Stability and reactivity

Reactivity	No dangerous reactions known if used as directed.
Chemical stability	The product is stable under standard conditions.
Possibility of hazardous reactions	Reactions with oxidizing agents.
Conditions to avoid	See SECTION 7
Incompatible materials	Oxidizing agent
Hazardous decomposition products	In the case of heating (150-180°C) following modest (decomposition) products may occur: Formaldehyde.

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - <2,5	1,2-Dihydro-2,2,4-trimethylquinoline homopolymer, CAS: 26780-96-1
	LD50, dermal, Rabbit: > 5100 mg/kg.
	LD50, oral, Rat: 3190 mg/kg.
1 - <2,5	Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate, CAS: 71735-74-5
	LD50, dermal, Rat: > 2000 mg/kg bw.
	LD50, oral, Rat: > 2000 mg/kg bw.

Acute oral toxicity not determined

Acute dermal toxicity not determined

Acute inhalational toxicity not determined

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks No classification on the basis of the calculation procedure of the preparation directive.
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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

Toxicity

Range [%]	Substance
1 - <2,5	1,2-Dihydro-2,2,4-trimethylquinoline homopolymer, CAS: 26780-96-1
	EL50, (72h), Desmodesmus subspicatus: > 100 mg/l.
	EL50, (48h), Daphnia magna: 56 mg/l.
	LL50, (96h), Danio rerio: > 100 mg/l.
1 - <2,5	Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate, CAS: 71735-74-5
	LC50, (96h), Danio rerio: 38 mg/l.
	EC50, (48h), Daphnia magna: 53 mg/l.
	ErC50, (72h), Desmodesmus subspicatus: > 100 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 not determined

COD not determined

BOD 5 not determined

AOX-advice not applicable

2006/11/EC: yes

Other adverse effects No classification on the basis of the calculation procedure of the preparation directive.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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

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

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SECTION 15: Regulatory information

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 does not contain any ingredients regulated under this list.

- CA Proposition 65

not applicable

- TSCA

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

- FDA

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

DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

Other Right to Know Laws

EC Regulations

1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

Hazard pictograms

none

Signal word

none

Hazard statements

none

Precautionary statements

none

Labelling

The product does not require a hazard warning label in accordance with EC-directives.

Hazard symbols

none

R-phrases

none

S-phrases

none

Special labelling

Safety data sheet available for professional user on request.

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SECTION 16: Other information

Observe employment restrictions no
for people

HMIS Ratings

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

NFPA Ratings

1
0 0
not

Modified position none