

# FAG Arcanol Mountingpaste

## Safety Data Sheet (SDS) according to OSHA-GHS (29 CFR 1910.1200 HCS 2012) (US)

Date printed 28.03.2018, Revision 16.03.2018

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

#### 1.1 Product identifier

**FAG Arcanol Mountingpaste**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1 Relevant uses

Lubricant

##### 1.2.2 Uses advised against

None known.

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

##### Company

Schaeffler Group USA Inc.  
308 Springhill Farm Road  
Fort Mill, South Carolina 29715 / USA  
Phone +1 803 548 8500  
Homepage [www.schaeffler.us](http://www.schaeffler.us)  
E-mail [info.usa@schaeffler.com](mailto:info.usa@schaeffler.com)

##### Manufacturer

Schaeffler Technologies AG & Co. KG  
Georg-Schäfer-Str. 30  
97421 Schweinfurt / GERMANY  
Phone +49 (0)9721 91 - 0  
Fax +49 (0)9721 91 - 3809  
Homepage [www.schaeffler.com](http://www.schaeffler.com)

##### Address enquiries to

##### Technical information

[michael.fassbinder@schaeffler.com](mailto:michael.fassbinder@schaeffler.com)

##### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

#### 1.4 Emergency telephone number

##### Advisory body

+49 (0)89-19240 (24h) (english)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Aquatic Acute 1: H400 Very toxic to aquatic life.  
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

**Hazard pictograms**



**Signal word**

WARNING

**Hazard statements**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

### 2.3 Other hazards

**Human health dangers**

Frequent persistent contact with the skin can cause skin irritation.

**Environmental hazards**

Does not contain any PBT or vPvB substances.

**Other hazards**

Further hazards were not determined with the current level of knowledge.

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### SECTION 3: Composition / Information on ingredients

**Product-type:**

The product is a mixture.

Range [%]	Substance
25 - <50	Trizinc bis(orthophosphate) CAS: 7779-90-0
2,5 - < 10	Zinc oxide CAS: 1314-13-2
1 - < 2,5	2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole CAS: 59656-20-1

**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.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General information**

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.

#### 4.2 Most important symptoms and effects, both acute and delayed

None known.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.  
Forward this sheet to the doctor.

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### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing** Foam.  
Dry powder.  
Water spray jet.  
Carbon dioxide.

**Extinguishing media that must not be used** Full water jet.

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.  
Carbon monoxide (CO)  
Nitrogen oxides (NOx).  
Phosphorus oxides (POx).  
Sulphur oxides (SOx).

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.  
Forms slippery surfaces with water.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

#### 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Dispose of absorbed material in accordance within the regulations.

#### 6.4 Reference to other sections

See SECTION 8+13

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
No special measures necessary if used correctly.

Wash hands before breaks and after work.  
Use barrier skin cream.  
Do not eat, drink or smoke when using this product.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.  
Prevent penetration into the ground.  
Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Ingredients with  
occupational exposure  
limits to be monitored (US)**

not applicable

#### DNEL

Substance
Zinc oxide, CAS: 1314-13-2
Industrial, dermal, Long-term - systemic effects: 83 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 5 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 0,83 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 2,5 mg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 83 mg/kg bw/d.
Trizinc bis(orthophosphate), CAS: 7779-90-0
Industrial, dermal, Long-term - systemic effects: 83 mg/kg bw.
Industrial, inhalative, Long-term - systemic effects: 5 mg/m <sup>3</sup> .
2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, CAS: 59656-20-1
Industrial, dermal, Acute - systemic effects: 3125 mg/kg bw.
Industrial, dermal, Long-term - systemic effects: 6,25 mg/kg bw.
Industrial, inhalative, Acute - systemic effects: 1087 mg/m <sup>3</sup> .

#### PNEC

Substance
Zinc oxide, CAS: 1314-13-2
soil, 35,6 mg/kg dw.
sediment (seawater), 56,5 mg/kg dw.
sediment (freshwater), 117,8 mg/kg dw.
sewage treatment plants (STP), 100 µg/L.
seawater, 6,1 µg/L.
freshwater, 20.6 µg/L.
Trizinc bis(orthophosphate), CAS: 7779-90-0
soil, 35,6 mg/kg dw.
sediment (seawater), 56,5 mg/kg dw.
sediment (freshwater), 117,8 mg/kg dw.
sewage treatment plants (STP), 0,1 mg/l.
seawater, 0,0061 mg/l.
freshwater, 0,0206 mg/l.

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### 8.2 Exposure controls

<b>Additional advice on system design</b>	<p>Ensure adequate ventilation on workstation. General 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.</p>
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	<p>The details concerned are recommendations. Please contact the glove supplier for further information. &gt; 0,4 mm: Butyl rubber, &gt;120 min (EN 374-1/-2/-3).</p>
<b>Skin protection</b>	<p>light protective clothing Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin.</p>
<b>Respiratory protection</b>	<p>Not required under normal conditions. Breathing apparatus in the event of aerosol or mist formation.</p>
<b>Thermal hazards</b>	none
<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

#### 9.1 Information on basic physical and chemical properties

Form	pasty
Color	beige
Odor	characteristic
Odor threshold	not applicable
pH-value	No information available.
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	not applicable
Flammability [°C]	Not explosive.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	no
Vapor pressure/gas pressure [kPa]	< 0,0001 (20°C)
Density [g/ml]	~ 1,38 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapor density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

#### 9.2 Other information

none

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reactions known if used as directed.

#### 10.2 Chemical stability

The product is stable under standard conditions.

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### 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

No special measures necessary.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Product
inhalative, Based on the information available, the classification criteria have not been fulfilled.:
dermal, Based on the information available, the classification criteria have not been fulfilled.:
oral, Based on the information available, the classification criteria have not been fulfilled.:
Substance
Zinc oxide, CAS: 1314-13-2
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: > 15000 mg/kg (IUCLID).
LC50, inhalative, Rat: > 5,7 mg/l (4 h) (Lit.).
Trizinc bis(orthophosphate), CAS: 7779-90-0
LD50, oral, Rat: > 5000 mg/kg.
2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, CAS: 59656-20-1
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: > 5000 mg/kg bw.

##### Serious eye damage/irritation

Based on the information available, the classification criteria have not been fulfilled.

##### Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

##### Respiratory or skin sensitisation

Based on the information available, the classification criteria have not been fulfilled.

##### Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

##### Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

##### Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

##### Reproduction toxicity

Based on the information available, the classification criteria have not been fulfilled.

##### Carcinogenicity

Based on the information available, the classification criteria have not been fulfilled.

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### Aspiration hazard

Based on the information available, the classification criteria have not been fulfilled.

### 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

### 12.1 Toxicity

Substance
Zinc oxide, CAS: 1314-13-2
EC50, (72h), Selenastrum capricornutum: 0,17 mg/l (Lit.).
Trizinc bis(orthophosphate), CAS: 7779-90-0
LC50, (96h), Oncorhynchus mykiss: > 0,14 mg/l.
EC50, (72h), Pseudokirchneriella subcapitata: > 0,136 mg/l.
EC50, (48h), Daphnia magna: > 1,08 mg/l.
2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, CAS: 59656-20-1
LC50, (96h), Pimephales promelas: > 1000 mg/l.
EC50, (72h), Pseudokirchneriella subcapitata: > 100 mg/l.
EC50, (48h), Daphnia magna: 41 mg/l.

### 12.2 Persistence and degradability

**Behaviour in environment compartments** not determined

**Behaviour in sewage plant** not determined

**Biological degradability** not determined

### 12.3 Bioaccumulative potential

not determined

### 12.4 Mobility in soil

not determined

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

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### 12.6 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.

#### 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.

## SECTION 14: Transport

### 14.1 UN number

Transport by land according to ADR/RID 3077

Inland navigation (ADN) 3077

Marine transport in accordance with IMDG 3077

Air transport in accordance with IATA 3077

DOT Road Shipment Information (49 CFR) 3077

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### 14.2 UN proper shipping name

**Transport by land according to ADR/RID** Environmentally hazardous substance, solid, n.o.s. (contains Zinc oxide, Trizinc bis(orthophosphate))

- Classification Code M7
- Label  
- ADR LQ 5 kg
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

**Inland navigation (ADN)** Environmentally hazardous substance, solid, n.o.s. (contains Zinc oxide, Trizinc bis(orthophosphate))

- Classification Code M7
- Label  


**Marine transport in accordance with IMDG** Environmentally hazardous substance, solid, n.o.s. (contains Zinc oxide, Trizinc bis(orthophosphate))

- EMS F-A, S-F
- Label  
- IMDG LQ 5 kg

**Air transport in accordance with IATA** Environmentally hazardous substance, solid, n.o.s. (contains Zinc oxide, Trizinc bis(orthophosphate))

- Label  

**DOT Road Shipment Information (49 CFR)** Environmentally hazardous substance, solid, n.o.s. (contains Zinc oxide, Trizinc bis(orthophosphate))

- Label  

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### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID 9

Inland navigation (ADN) 9

Marine transport in accordance with IMDG 9

Air transport in accordance with IATA 9

DOT Road Shipment Information (49 CFR) 9

### 14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

DOT Road Shipment Information (49 CFR) III

### 14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

DOT Road Shipment Information (49 CFR) yes

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
not determined

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**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 does not contain any ingredients regulated under this list.
- CA Proposition 65 No chemical substances in this material are named on the California Proposition 65 list.

- TSCA All chemical substances in this material are comply to the TSCA Inventor.

- 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 (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 03)

H412 Harmful to aquatic life with long lasting effects.  
H410 Very toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.

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### 16.2 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;  
 ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route;  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;  
 CAS = Chemical Abstracts Service;  
 CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;  
 CFR = Code of Federal Regulations;  
 CPR = Controlled Products Regulations;  
 DMEL = Derived Minimum Effect Level;  
 DNEL = Derived No Effect Level;  
 DOT = Department of Transportation;  
 EC50 = Median effective concentration;  
 EPA = Environmental Protection Agency;  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals;  
 IATA = International Air Transport Association;  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
 IC50 = Inhibition concentration, 50%;  
 IMDG = International Maritime Code for Dangerous Goods;  
 IARC = International Agency of Research on Cancer;  
 IATA = International Air Transport Association;  
 TSCA = Toxic Substance Control Act;  
 HMIS = Hazardous Materials Identification System;  
 NFPA = National Fire Protection Association;  
 NIOSH = National Institute for Occupational Safety and Health;  
 OSHA = Occupational Safety and Health Administration;  
 LC50 = Lethal concentration, 50%;  
 LD50 = Median lethal dose, 50%;  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships;  
 PBT = Persistent, Bioaccumulative and Toxic substance;  
 PNEC = Predicted No-Effect Concentration;  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;  
 SARA = Superfund Amendments and Reauthorization Act;  
 TLV®/TWA = Threshold limit value – time-weighted average;  
 TLV®STEL = Threshold limit value – short-time exposure limit;  
 VOC = Volatile Organic Compounds;  
 vPvB = very Persistent and very Bioaccumulative;

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### 16.3 Ratings

#### HMIS Ratings

<b>HEALTH</b>	<b>0</b>	0 - Minimal Hazard
<b>FLAMMABILITY</b>	<b>1</b>	1 - Slight Hazard
<b>PHYSICAL HAZARD</b>	<b>0</b>	0 - Minimal Hazard
<b>PERSONAL PROTECTION</b>	<b>A</b>	A - Safety Glasses

#### NFPA Ratings

<b>1</b>
<b>0 0</b>
not