

# Arcanol MULTI2

## Safety Data Sheet (UK REACH) (GB)

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

#### 1.1 Product identifier

**Arcanol MULTI2**

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

##### Address enquiries to

##### Technical information

[support.is@schaeffler.com](mailto:support.is@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 [REGULATION (GB) CLP]

No classification.

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### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

**Hazard pictograms** none

**Signal word** none

**Hazard statements** none

**Precautionary statements** none

**Special labelling** EUH210 Safety data sheet available on request.

Contains: Zinc naphthenate. EUH208 May produce an allergic reaction.

### 2.3 Other hazards

**Environmental hazards** Does not contain any PBT or vPvB substances.

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

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances not applicable

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### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - < 2.5	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)
	CAS: 4259-15-8, EINECS/ELINCS: 224-235-5, Reg-No.: 01-2119493635-27-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 2: H411
	SCL [%]: >50 - 100: Eye Dam. 1: H318
< 1	Zinc naphthenate
	CAS: 84418-50-8, EINECS/ELINCS: 282-762-6, Reg-No.: 01-2119988500-34-XXXX
	GHS/CLP: Skin Sens. 1: H317 - Aquatic Chronic 3: H412
0 - < 1	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts
	CAS: 68457-79-4, EINECS/ELINCS: 270-608-0
	GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Chronic 2: H411

#### Comment on component parts

Contains less than 3% w/w DMSO-extract (only for mineral oils)  
All chemical substances in this material are included on or exempted from listing on the ENCS Inventory.  
All chemical substances in this material are included on or exempted from listing on the IECSC Inventory.  
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

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Not required under normal conditions. 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. Rinse mouth.

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

Irritant effects

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

Treat symptomatically.

Forward this sheet to your doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing

Carbon dioxide.  
Water spray jet.  
Dry powder.  
Foam.

#### 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).

### 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.

Cool containers at risk with water spray jet.

## 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.  
Use personal protective equipment.

### 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.

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### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No special measures necessary if used correctly.  
Avoid contact with eyes and skin. Use personal protective equipment.

Do not eat, drink or smoke when using this product.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
Keep away from food and drink.  
Cloths contaminated with product should not be kept in trouser pockets.  
Take off contaminated clothing and wash before reuse.

### 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 (GB)**

not applicable

#### DNEL

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
Industrial, dermal, Long-term - systemic effects, 9.6 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 6.6 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 0.19 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 4.8 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1.67 mg/m <sup>3</sup>

#### PNEC

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
sediment (freshwater), 0.322 mg/kg dw
sediment (seawater), 0.032 mg/kg dw
oral (food), 8.33 mg/kg
sewage treatment plants (STP), 3.8 mg/l
seawater, 4.6 µg/L
freshwater, 4 µg/L
soil, 0.062 mg/kg soil dw
Zinc naphthenate, CAS: 84418-50-8
soil, 6.38 mg/kg Boden dw
sediment (seawater), 3.19 mg/kg Sediment dw
sediment (freshwater), 31.93 mg/kg Sediment dw
sewage treatment plants (STP), 147.73 µg/L
seawater, 0.64 µg/L
freshwater, 6.39 µg/L

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### 8.2 Exposure controls

**Additional advice on system design** Ensure adequate ventilation on workstation.  
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. General exposure limit for oil mist should be noted.

**Eye protection** Safety glasses. (EN 166:2001)

**Hand protection** The details concerned are recommendations. Please contact the glove supplier for further information.  
In full contact:  
> 0.4mm; butyl rubber, > 120 min (EN 374-1/-2/-3)

**Skin protection** light protective clothing

**Other** Avoid contact with eyes and skin.

**Respiratory protection** Not required under normal conditions.

**Thermal hazards** none

**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

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

<b>Physical state</b>	pasty
<b>Color</b>	
<b>Odor</b>	characteristic
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	> 250°C/ 482°F
<b>Flash point [°C]</b>	> 200°C/ 392°F
<b>Flammability (solid, gas) [°C]</b>	No information available.
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/cm³]</b>	ca. 0.9 (DIN 51757) (20 °C / 68,0 °F)
<b>Relative density</b>	No information available.
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	not applicable
<b>Kinematic viscosity</b>	No information available.
<b>Relative vapour density</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	> 180/356°F
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition temperature [°C]</b>	No information available.
<b>Particle characteristics</b>	No information available.

#### 9.2 Other information

none

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reactions known if used as directed.



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### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

If product is heated above decomposition temperature toxic vapours may be released.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

Strong oxidizing agent.

Strong acids.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute oral toxicity

Product	
LD50, oral, Rat, > 5000 mg/kg bw	
Substance	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8	
LD50, oral, Rat, 3100 mg/kg bw	
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts, CAS: 68457-79-4	
LD50, oral, Rat, 3600 mg/kg	
Zinc naphthenate, CAS: 84418-50-8	
LD50, oral, Rat, > 2000 mg/kg bw	

##### Acute dermal toxicity

Product	
LD50, dermal, Rabbit, > 5000 mg/kg bw	
Substance	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8	
LD50, dermal, Rabbit, 5000 mg/kg bw	
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts, CAS: 68457-79-4	
LD50, dermal, Rat, 20000 mg/kg	
Zinc naphthenate, CAS: 84418-50-8	
LD50, dermal, Rat, > 2000 mg/kg bw	

##### Acute inhalational toxicity

Product	
Based on the available information, the classification criteria are not fulfilled.	
Substance	
Zinc naphthenate, CAS: 84418-50-8	
LC50, inhalative, Rat, > 0.42 mg/l/4h	

##### Serious eye damage/irritation

Toxicological data of complete product are not available.  
 The undiluted substance CAS 4259-15-8 is an irritant while the 50% formulation in mineral oil was not an irritant.  
 Based on the available information, the classification criteria are not fulfilled.

Substance	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8	

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	Causes serious eye damage.	
	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts, CAS: 68457-79-4	
	Causes serious eye damage.	
	Zinc naphthenate, CAS: 84418-50-8	
	Eye, Rabbit, OECD 405, non-irritating	

### Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

	Substance
	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
	no adverse effect observed
	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts, CAS: 68457-79-4
	irritant
	Zinc naphthenate, CAS: 84418-50-8
	dermal, Rabbit, OECD 404, non-irritating

### Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

	Substance
	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
	no adverse effect observed
	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts, CAS: 68457-79-4
	no adverse effect observed
	Zinc naphthenate, CAS: 84418-50-8
	dermal, Guinea pig, OECD 406, sensitising

### Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

### Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not fulfilled.

	Substance
	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
	NOAEL, oral, Rat, 125 mg/kg bw/day
	Zinc naphthenate, CAS: 84418-50-8
	NOAEL, oral, Rat, 50 mg/kg bw/day

### Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

	Substance
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	Zinc naphthenate, CAS: 84418-50-8	
	InVivo. OECD 474, negativ	
	InVitro, OECD 471, negativ	

**Reproduction toxicity**

Based on the available information, the classification criteria are not fulfilled.

	Substance
	Zinc naphthenate, CAS: 84418-50-8
	NOAEL, oral, Rat, 188 mg/kg bw/day
	NOAEL, oral, Rat, 250 mg/kg bw/day

**Carcinogenicity**

Based on the available information, the classification criteria are not fulfilled.

**Aspiration hazard**

Based on the available information, the classification criteria are not 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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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

No information available.

**Other information**

No information available.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Product	
LL0, fish, 10 - 100 mg/l	
Substance	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8	
EL50, (48h), Daphnia magna, 75 mg/l (OECD 202)	
NOEC, (21d), Daphnia magna, 0.4 mg/l (OECD 211)	
LL50, (96h), Rainbow trout, 4.4 mg/l	
ErL50, (72h), Scenedesmus subspicatus, 410 mg/l (OECD 201)	
EbL50, (72h), Scenedesmus subspicatus, 240 mg/l (OECD 201)	
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)	
Zinc naphthenate, CAS: 84418-50-8	
LC50, (4d), fish, 112 - 5620 µg/L	
EC50, (4d), Algae, 18.1 - 80.5 mg/L	
EC50, (48h), Invertebrates, 155 - 20 000 µg/L	

#### 12.2 Persistence and degradability

**Behaviour in environment compartments** No information available.

**Behaviour in sewage plant** The product floats on the (waste) water.  
Can be separated out mechanically in purification plants.

**Biological degradability** CAS 4259-15-8: < 5%. 27d

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

The product is insoluble in water.

#### 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 Endocrine disrupting properties

No information available.

### 12.7 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

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

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

In accordance with RoHS!

Coordinate disposal with the disposal contractor/authorities if necessary.

**Waste no. (recommended)** 120112\* spent waxes and fats

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Uncontaminated packaging may be reused.

**Waste no. (recommended)** 150110\* packaging containing residues of or contaminated by hazardous substances

150102

150104

## SECTION 14: Transport information

### 14.1 UN number or ID number

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

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### 14.2 UN proper shipping name

**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"

### 14.3 Transport hazard class(es)

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

### 14.4 Packing group

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

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### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-NATIONAL REGULATIONS (GB):** ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)  
EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people no

- VOC (2010/75/CE) 0 %

### 15.2 Chemical safety assessment

not applicable



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### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage.

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### 16.2 Abbreviations and acronyms:

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  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
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  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
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

### 16.3 Other information

#### Classification procedure

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**Modified position** none