

# Arcanol TEMP110

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

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

#### 1.1 Product identifier

Arcanol TEMP110

#### 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) (No dispatch of safety data sheets)  
Safety data sheets are available from the supplier.

#### 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: Polysulfides, di-tert-dodecyl. EUH208 May produce an allergic reaction.

### 2.3 Other hazards

**Human health dangers** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Environmental hazards** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**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
2,5 - < 5	Dilithium adipate
	CAS: 18621-94-8, EINECS/ELINCS: 242-449-7, Reg-No.: 01-2120116611-70
	GHS/CLP: Acute Tox. 4: H302
1- < 2,5	Molybdenum, Bis(dibutylcarbamodithio)di-oxodioxo-di-, sulfurized
	CAS: 68412-26-0, EINECS/ELINCS: 270-180-5, Reg-No.: 01-2120764792-44-XXXX
	GHS/CLP: Aquatic Chronic 4: H413
0,3 - < 1	Reaction products of boric acid and lithium hydroxide
	EINECS/ELINCS: 701-475-3, Reg-No.: 01-2120772309-47
	GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318 - Repr. 2: H361d
	SCL [%]: >=7,6 - 100: Repr. 2: H361d
0,3 - < 1	Polysulfides, di-tert-dodecyl
	CAS: 68425-15-0, EINECS/ELINCS: 270-335-7, Reg-No.: 01-2119540516-41-XXXX
	GHS/CLP: Skin Sens. 1B: H317

**Comment on component parts**

Mineral oil-based mixture with synthetic hydrocarbons (polyalphaolefins).  
Contains less than 3% w/w DMSO-extract (only for mineral oils)

## 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

Irritant effects

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### 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

<b>Suitable extinguishing</b>	Carbon dioxide. Water spray jet. Dry powder. Alcohol-resistant foam.
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<b>Extinguishing media that must not be used</b>	Full water jet.
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### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.  
Carbon monoxide (CO)

### 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.

Do not eat, drink or smoke when using this product.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
Contaminated work clothing should not be allowed out of the workplace.  
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.  
Protect from heat/overheating and from sun.

#### 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 (UK)

not relevant

##### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

#### DNEL

Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
There are no DNEL values established for the substance.
Dilithium adipate, CAS: 18621-94-8
Industrial, inhalative, Long-term - systemic effects, 8.82mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 1.25mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 2.17mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 0.625mg/kg bw/day
general population, oral, Long-term - systemic effects, 0.625mg/kg bw/day
Reaction products of boric acid and lithium hydroxide
Industrial, inhalative, Long-term - systemic effects, 7.1 mg/m <sup>3</sup> (AF=12.5)
Industrial, dermal, Long-term - systemic effects, 1.67 mg/kg bw/d (AF=30)
general population, dermal, Long-term - systemic effects, 0.83 mg/kg bw/d (AF=60)
general population, inhalative, Long-term - systemic effects, 1.74 mg/m <sup>3</sup> (AF=25)
general population, oral, Long-term - systemic effects, 0.83 mg/kg bw/d (AF=60)

#### PNEC

Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
sewage treatment plants (STP), 1 g/L
sediment (freshwater), 3.85 mg/kg sediment dw
oral (food), 66.7 mg/kg food
sediment (seawater), 385 µg/kg sediment dw
Dilithium adipate, CAS: 18621-94-8
freshwater, 0.023mg/L
seawater, 0.002mg/L
Reaction products of boric acid and lithium hydroxide
sewage treatment plants (STP), 44 mg/L (AF=10)

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### 8.2 Exposure controls

<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>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. ca. 0,4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	light protective clothing
<b>Other</b>	Avoid contact with eyes and skin.
<b>Respiratory protection</b>	Not required under normal conditions. Breathing apparatus in the event of aerosol or mist formation. Filtering half mask, class: FFP3 (DIN EN 149).
<b>Thermal hazards</b>	not applicable
<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

Physical state	liquid
Form	pasty
Color	yellow
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	No information available.
Flash point [°C]	> 220 / > 428 °F
Flammability	No information available.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	0,89 (DIN ISO 12185) (15 °C / 59,0 °F)
Relative density	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	not relevant
Relative vapour density	not relevant
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	not applicable

#### 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 oxidizing agents.

### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

Oxidizing agent

### 10.6 Hazardous decomposition products

No information available.

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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
ATE-mix, oral, Based on the available information, the classification criteria are not fulfilled., >
Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
LD50, oral, Rat, ca. 20000 mg/kg bw (ECHA)
Dilithium adipate, CAS: 18621-94-8
LD50, oral, Rat, >300 mg/kg bw, OECD 420
Reaction products of boric acid and lithium hydroxide
LD50, oral, Rat, 500 mg/kg

##### Acute dermal toxicity

Product
ATE-mix, dermal, Based on the available information, the classification criteria are not fulfilled.,
Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
LD0, dermal, Rat, 2000 mg/kg bw
Dilithium adipate, CAS: 18621-94-8
ATE, dermal, Rat, >2,000 mg/kg bw, OECD 402

##### Acute inhalational toxicity

Product
ATE-mix, inhalation (vapour), > 20 mg/L
ATE-mix, inhalativ (mist), > 5 mg/L

##### Serious eye damage/irritation

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

##### Skin corrosion/irritation

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

##### Respiratory or skin sensitisation

EUH208: May produce an allergic reaction.  
Calculation method

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

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

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<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
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	Substance
	Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
	NOAEL, oral, Rat, 1000 mg/kg bw/day, no adverse effect observed

<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled.
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<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled.
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<b>- Fertility</b>	No information available.
<b>- Development</b>	

	Substance
	Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
	NOAEL, oral, Rabbit, 800 mg/kg bw/day, no adverse effect observed

<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled.
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<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
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<b>General remarks</b>	Toxicological data of complete product are not available.
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### 11.2 Information on other hazards

<b>11.2.1 Endocrine disrupting properties</b>	Contains no ingredients with endocrine-disrupting properties.
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<b>11.2.2 Other information</b>	none
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### SECTION 12: Ecological information

#### 12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
LC50, (96h), Danio rerio, > 100 mg/L, OECD 203
NOEC, (48h), Invertebrates, 100 µg/L
NOEC, (72h), Algae, 80 µg/L
Dilithium adipate, CAS: 18621-94-8
LC50, (96h), Cyprinus carpio, >100 mg/L (OECD 203)
EC50, (48h), Daphnia magna, >100 mg/L (OECD 202)
EC10, (72h), Pseudokirchneriella subcapitata, 5.8 mg/L (OECD 201)

#### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	No information available.

#### 12.3 Bioaccumulative potential

No information available.

Substance
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
BCF, < 1
log Pow, > 12

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

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### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.

## 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 according to RoHS!

**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)** 150102

## 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

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### SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

**- Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

**- Annex XIV (REACH)** According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances  $\geq 0.1\%$  that are subject to authorisation.

**- Annex XVII (REACH)** According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains  $\geq 0.1\%$  of substances with the following restrictions.  
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According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.

**TRANSPORT-  
NATIONAL REGULATIONS (UK):** ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)  
EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

**- Observe employment restrictions for people** not applicable

**- VOC (2010/75/CE)** 0 %

#### 15.2 Chemical safety assessment

not applicable

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H413 May cause long lasting harmful effects to aquatic life.

H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child.

H318 Causes serious eye damage.

H302 Harmful if swallowed.



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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**

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