

# Safety Data Sheet 1907/2006/EC - REACH (GB)

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

1.1 Product identifier

**Arcanol LOAD460** 

- 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

Address enquiries to

Technical information support.is@schaeffler.com
Safety Data Sheet 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 (EC) No 1272/2008]

Skin Sens. 1: H317 May cause an allergic skin reaction.



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#### 2.2 Label elements

The product is required to be labelled in accordance with regulation

(EC) No 1272/2008 (CLP).

Hazard pictograms

**(!)** 

Signal word

WARNING

**Contains:** 

Naphthenic acids, zinc salts

Dipentylammonium dipentyldithiocarbamate

**Hazard statements** 

H317 May cause an allergic skin reaction.

**Precautionary statements** 

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice /

attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

#### 2.3 Other hazards

**Environmental hazards** 

Does not contain any PBT or vPvB substances.

Other hazards

none

## SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

The product is a mixture.



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#### 3.2 Mixtures

Range [%]	Substance
1 - < 2,5	Naphthenic acids, zinc salts
	CAS: 12001-85-3, EINECS/ELINCS: 234-409-2
	GHS/CLP: Skin Sens. 1B: H317 - Eye Irrit. 2: H319 - Aquatic Chronic 2: H411
0,1 - < 0,25	Dipentylammonium dipentyldithiocarbamate
	CAS: 71902-20-0, EINECS/ELINCS: 276-172-8, Reg-No.: 01-2120793078-43
	GHS/CLP: Acute Tox. 4: H302 - Skin Sens. 1B: H317 - Aquatic Acute 1: H400 - Aquatic
	Chronic 1: H410,
	M_acute = 1
0 - < 0,25	Zinc oxide
	CAS: 1314-13-2, EINECS/ELINCS: 215-222-5, EU-INDEX: 030-013-00-7, Reg-No.: 01-
	2119463881-32-XXXX
	GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 1: H410,
	M acute = 1, M chronic = 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** Take off contaminated clothing and wash before reuse.

**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.



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

Treat symptomatically.

Forward this sheet to the doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing

Foam.
Dry powder.
Carbon dioxide.

Extinguishing media that must not be used

Water.

# 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Nitrogen oxides (NOx). 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.

### 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.

Contaminated work clothing should not be allowed out of the

workplace.

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

Keep only in original container.

Do not store together with oxidizing agents.

Keep container tightly closed.

Store in a dry place.

Do not keep at temperatures below 0°C / 32°F.

Recommended storage temperature: 5°C/41°F - 40°C/104°F

#### 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 oxide, CAS: 1314-13-2
	Industrial, inhalative, Long-term - local effects: 0,5 mg/m³.
	Industrial, dermal, Long-term - systemic effects: 83 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 5 mg/m³.
	general population, oral, Long-term - systemic effects: 0,83 mg/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 2,5 mg/m³.
_	general population, dermal, Long-term - systemic effects: 83 mg/kg bw/d.

### **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.



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#### 8.2 Exposure controls

Additional advice on system Ensure adequate ventilation on workstation.

**design** 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.

0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).

Skin protectionNot required under normal conditions.OtherAvoid contact with eyes and skin.Respiratory protectionNot 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

> **Form** pasty Color brown

characteristic Odor **Odour threshold** not required pH-value not applicable pH-value [1%] not applicable

Boiling point [°C] > 250 > 200 Flash point [°C]

Flammability (solid, gas) [°C] No information available.

Lower explosion limit not applicable **Upper explosion limit** not applicable

**Oxidising properties** no

Vapour pressure/gas No information available.

pressure [kPa]

Density [g/ml] ca. 0,93 (DIN 51757) (20 °C / 68,0 °F)

Bulk density [kg/m³] not applicable Solubility in water virtually insoluble

Partition coefficient [n-

octanol/water]

No information available.

No information available. **Viscosity** Relative vapour density No information available.

determined in air

**Evaporation speed** 

No information available.

> 170 Melting point [°C]

**Autoignition temperature** 

[°C]

No information available.

**Decomposition temperature** > 240

[°C]

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.

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

#### 10.4 Conditions to avoid

Strong heating, because the thermal decomposition starts from > 240°C.

#### 10.5 Incompatible materials

Strong oxidizing agent.

## 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
ATE-mix, oral, > 2000 mg/kg.
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.).
Naphthenic acids, zinc salts, CAS: 12001-85-3
LD50, oral, Rat: >2000 mg/kg bw (OECD 423).
Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0

Serious eye damage/irritation

Based on the available information, the classification criteria are not

fulfilled.

LD50, oral, Rat: 300 - 2000 mg/kg bw.

Slight irritant effect.

Skin corrosion/irritation

Based on the available information, the classification criteria are not

fulfilled.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Calculation method

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.

Mutagenicity

Based on the available information, the classification criteria are not

fulfilled.

Reproduction toxicity

Based on the available information, the classification criteria are not

fulfilled.

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** 



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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. Toxicological data of complete product are not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

 IOAIO	,
	Product
	Based on the available information, the classification criteria are not fulfilled.:
	Substance
	Zinc oxide, CAS: 1314-13-2
	EC50, (72h), Selenastrum capricornutum: 0,17 mg/l (Lit.).
	Naphthenic acids, zinc salts, CAS: 12001-85-3
	EL50, (72h), Pseudokirchneriella subcapitata: 4 mg/L (OECD 201).
	EL50, (48h), Daphnia magna: 35 mg/L (OECD 202).
	LL50, (96h), Cyprinus carpio: >100 mg/L (OECD 203).
	Dipentylammonium dipentyldithiocarbamate, CAS: 71902-20-0
	EC50, (72h), Algae: 16 mg/L.

### 12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined not determined **Biological degradability** 

EC50, (48h), Daphnia magna: 0.59 mg/L.

### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### Results of PBT and vPvB assessment

No information available.

#### 12.6 Other adverse effects

Do not discharge product unmonitored into the environment.



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**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**

In according to RoHS!

Disposal in an incineration plant in accordance with the regulations of

the local authorities.

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

Transport by land according not applicable to ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG

not applicable

Air transport in accordance not applicable

with IATA

#### 14.2 UN proper shipping name

Transport by land according NO DANGEROUS GOODS

to ADR/RID

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance NOT CLASSIFIED AS "DANGEROUS GOODS"

with IATA



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#### 14.3 Transport hazard class(es)

Transport by land according not applicable to ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG

not applicable

Air transport in accordance not applicable with IATA

### 14.4 Packing group

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

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG

not applicable

Air transport in accordance not applicable with IATA

#### 14.5 Environmental hazards

Transport by land according no to ADR/RID

Inland navigation (ADN) no

Marine transport in accordance with IMDG

Air transport in accordance no with IATA

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

no

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/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) 2015/830; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-** ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

NATIONAL REGULATIONS

EH40/2005 Workplace exposure limits (Second edition, published

(GB): December 2011).

- Observe employment restrictions for people

no

- VOC (2010/75/CE) 0%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life. H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.



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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

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

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



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16.3 Other information

Customs Tariff 34031990

Classification procedure Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation

method)

Modified position SECTION 2 been added: P362+P364 Take off contaminated clothing

and wash it before reuse.

SECTION 2 been added: P333+P313 If skin irritation or rash occurs:

Get medical advice / attention.

SECTION 2 been added: P280 Wear protective gloves.

SECTION 2 been added: H317 May cause an allergic skin reaction.

SECTION 2 been added: Skin Sens. 1

SECTION 2 deleted: EUH210 Safety data sheet available on request.

SECTION 11 been added: May cause an allergic skin reaction. SECTION 11 deleted: Based on the available information, the

classification criteria are not fulfilled.