

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 1 / 17

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

1.1 Product identifier

Arcanol MULTITOP

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]

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 2 / 17

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms none

Signal word none

Hazard statements H412 Harmful to aquatic life with long lasting effects.

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

Special labelling Contains: Benzenesulfonic acid, di-C10-14 alkyl derivs., calcium salts.
EUH208 May produce an allergic reaction.

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.

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020

Page 3 / 17

Version 09. Supersedes version: 08

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
5 - < 10	Distillates (petroleum), solvent-refined heavy paraffinic CAS: 64741-88-4, EINECS/ELINCS: 265-090-8, EU-INDEX: 649-454-00-7, Reg-No.: 01-2119488706-23
10 - < 50	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based CAS: 72623-87-1, EINECS/ELINCS: 276-738-4, EU-INDEX: 649-483-00-5, Reg-No.: 01-2119474889-13-XXXX GHS/CLP: Asp. Tox. 1: H304
2,5 - < 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
0,5 - < 1	Benzenesulfonic acid, di-C10-14 alkyl derivs., calcium salts CAS: 1471316-72-9, EINECS/ELINCS: 939-603-7 GHS/CLP: Skin Sens. 1: H317

Comment on component parts

Contains less than 3% w/w DMSO-extract (only for mineral oils)
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

Headache
Irritant effects

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 4 / 17

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 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.

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

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020

Page 5 / 17

Version 09. Supersedes version: 08

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.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020

Page 6 / 17

Version 09. Supersedes version: 08

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, inhalative, Long-term - systemic effects: 6,6 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 9,6 mg/kg bw/d.
general population, oral, Long-term - systemic effects: 0,19 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 4,8 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 1,67 mg/m ³ .
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
Industrial, inhalative, Long-term - local effects: 5.6 mg/m ³
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects: 2.7 mg/m ³ .
general population, oral, Long-term - systemic effects: 0.74 mg/kg bw/day
Distillates (petroleum), solvent-refined heavy paraffinic, CAS: 64741-88-4
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/d.
Industrial, inhalative, Long-term - local effects: 5.6 g/m ³ .
Industrial, inhalative, Long-term - systemic effects: 2.7 mg/m ³ .
general population, oral, Long-term - systemic effects: 0.74 mg/kg bw/d.

PNEC

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
oral (food), 8.33 mg/kg food (AF=300).
soil, 0.062 mg/kg dw.
sediment (seawater), 0.0322 mg/kg dw.
sediment (freshwater), 0.322 mg/kg dw.
sewage treatment plants (STP), 3.8 mg/L (AF= 100).
seawater, 4.6 µg/L (AF= 10 000).
freshwater, 4 µg/L (AF= 100).
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
oral (food), 9,33 mg/kg.
Distillates (petroleum), solvent-refined heavy paraffinic, CAS: 64741-88-4
There are no PNEC values established for the substance.,

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 7 / 17

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.

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:
> 0,4 mm: Butyl rubber, >120 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other Avoid contact with eyes and skin.

Respiratory protection not applicable

Thermal hazards not applicable

Delimitation and monitoring of the environmental exposition Comply with applicable environmental regulations limiting discharge to air, water and soil.

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020

Page 8 / 17

Version 09. Supersedes version: 08

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	dark brown
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 300°C/> 572°F
Flash point [°C]	> 200°C/> 392°F
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	< 0,01 (20°C)
Density [g/ml]	ca. 0,87 (20°C)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	82 mm²/s (40°C)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	> 200°C/> 392°F

9.2 Other information

Drop point: > 190°C

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 9 / 17

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

See SECTION 7.2.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020

Page 10 / 17

Version 09. Supersedes version: 08

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
LD50, dermal, Rabbit: > 5000 mg/kg bw (OECD 402).
LD50, oral, Rat: > 3100 mg/kg bw (OECD 401).
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, dermal, Rabbit: >= 2000 mg/kg (OECD 402).
LD50, oral, Rat: >= 5000 mg/kg (OECD 401).
LC50, inhalative, Rat: >= 5,53 mg/l (OECD 403).
Distillates (petroleum), solvent-refined heavy paraffinic, CAS: 64741-88-4
LD50, dermal, Rabbit: > 5000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.
Slight irritant effect - does not require labelling.
The undiluted substance CAS 4259-15-8 is an irritant while the 50% formulation in mineral oil was not an irritant.
Classification was carried out based on substance-specific concentration limits.

Skin corrosion/irritation

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

Respiratory or skin sensitisation

May produce an allergic reaction.
> 10% Skin Sens. 1B (CAS 1471316-72-9)
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.

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020

Page 11 / 17

Version 09. Supersedes version: 08

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.

SECTION 12: Ecological information

12.1 Toxicity

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 (OECD 203).
ErL50, (72h), Scenedesmus subspicatus: 410 mg/l (OECD 201).
EbL50, (72h), Scenedesmus subspicatus: 240 mg/l (OECD 201).
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
EL50, (24h), Daphnia magna: >10000 mg/l (OECD).
LL50, (96h), Pimephales promelas: >100 mg/l (OECD).
NOEL, (72h), Pseudokirchneriella subcapitata: >100 mg/l (OECD).
NOEL, (21d), Daphnia magna: 10 mg/l (OECD).

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.

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 12 / 17

12.6 Other adverse effects

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*
150104

SECTION 14: Transport information

14.1 UN 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

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 13 / 17

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

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 14 / 17

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

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

TRANSPORT-NATIONAL REGULATIONS (GB): ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020) EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people no

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020

Page 15 / 17

Version 09. Supersedes version: 08

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage.

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020

Page 16 / 17

Version 09. Supersedes version: 08

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 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

Arcanol MULTITOP

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

Date printed 07.07.2020, Revision 07.07.2020
Version 09. Supersedes version: 08

Page 17 / 17

16.3 Other information

Classification procedure

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

none