

Arcanol MOTION2

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

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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.

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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 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.

2.3 Other hazards

Human health dangers Has a degreasing effect on the skin.

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

SECTION 3: Composition / Information on ingredients

3.1 Substances

The product is a mixture.

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3.2 Mixtures

Range [%]	Substance
1 - < 5	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, Compd. with 1,3,5-Triazine-2,4,6-triamine
	CAS: 37640-57-6, EINECS/ELINCS: 253-575-7
	GHS/CLP: STOT RE 2: H373
1 - < 3	Calcium dihydroxide
	CAS: 1305-62-0, EINECS/ELINCS: 215-137-3, Reg-No.: 01-2119475151-45-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - STOT SE 3: H335
1 - < 3	Hexaboron dizinc undecaoxide
	CAS: 12676-90-7, EINECS/ELINCS: 235-804-2
	GHS/CLP: Repr. 2: H361d - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411
0,25 - < 1	Zinc pyrophosphate
	CAS: 7446-26-6, EINECS/ELINCS: 231-203-4, Reg-No.: 01-2120768152-56
	GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 1: H410
0,1 - < 1	Benzenesulfonic acid, di-C10-14 alkyl derivs., calcium salts
	CAS: 1471316-72-9, EINECS/ELINCS: 939-603-7, Reg-No.: 01-2119978241-36-XXXX
	GHS/CLP: Skin Sens. 1B: H317
0,1 - < 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	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.

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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.

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.

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.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.
Keep container tightly closed.
Store in a dry place.
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 (GB)

Substance
Calcium dihydroxide
CAS: 1305-62-0, EINECS/ELINCS: 215-137-3, Reg-No.: 01-2119475151-45-XXXX
Long-term exposure: 1 mg/m ³
Short-term exposure (15-minute): 4 mg/m ³ , 15

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Calcium dihydroxide
CAS: 1305-62-0, EINECS/ELINCS: 215-137-3, Reg-No.: 01-2119475151-45-XXXX
Eight hours: 1 mg/m ³ , Respirable fraction.
Short-term (15-minute): 4 mg/m ³

DNEL

Substance
Zinc oxide, CAS: 1314-13-2
Industrial, inhalative, Long-term - local effects: 0,5 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 83 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 5 mg/m ³ .
general population, dermal, Long-term - systemic effects: 83 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 2,5 mg/m ³ .
general population, oral, Long-term - systemic effects: 0,83 mg/kg bw/d.
Calcium dihydroxide, CAS: 1305-62-0
Industrial, inhalative, Acute - local effects: 4 mg/m ³ .
Industrial, inhalative, Long-term - local effects: 1 mg/m ³ .
general population, inhalative, Acute - local effects: 4 mg/m ³ .
general population, inhalative, Long-term - local effects: 1 mg/m ³ .
Benzenesulfonic acid, di-C10-14 alkyl derivs., calcium salts
Industrial, inhalative, Long-term - systemic effects: 35,26 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 25 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 8,7 mg/m ³ .
general population, oral, Long-term - systemic effects: 2,5 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 12.5 mg/kg bw/day.
Zinc pyrophosphate, CAS: 7446-26-6
Industrial, inhalative, Long-term - systemic effects: 13.5 mg/m ³ .

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	Industrial, dermal, Long-term - systemic effects: 193 mg/kg bw/d.	
	general population, inhalative, Long-term - systemic effects: 6.76 mg/m ³ .	
	general population, dermal, Long-term - systemic effects: 193 mg/kg bw/d.	
	general population, oral, Long-term - systemic effects: 1.93 mg/kg bw/d.	

PNEC

	Substance
	Zinc oxide, CAS: 1314-13-2
	seawater, 6,1 µg/L.
	sewage treatment plants (STP), 100 µg/L.
	sediment (freshwater), 117,8 mg/kg dw.
	sediment (seawater), 56,5 mg/kg dw.
	soil, 35,6 mg/kg dw.
	freshwater, 20.6 µg/L.
	Calcium dihydroxide, CAS: 1305-62-0
	sewage treatment plants (STP), 3 mg/L.
	seawater, 0,32 mg/L.
	freshwater, 0,49 mg/L.
	soil, 1080 mg/kg soil dw.
	Benzenesulfonic acid, di-C10-14 alkyl derivs., calcium salts
	soil, 36739,74 mg/kg soil dw.
	freshwater, 0,1 mg/l.
	seawater, 0,1 mg/l.
	sewage treatment plants (STP), 1000 mg/l.
	sediment (seawater), 45211 mg/kg sediment dw.
	sediment (freshwater), 45211 mg/kg sediment dw.
	Zinc pyrophosphate, CAS: 7446-26-6
	freshwater, 0.233 µg/L (AF= 1000).
	seawater, 23.3 ng/L (AF= 10 000).
	sewage treatment plants (STP), 0.052 mg/L (AF= 100).
	sediment (freshwater), 25.6 mg/kg dw.
	sediment (seawater), 2.56 mg/kg dw.
	soil, 5.13 mg/kg dw.

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8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

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: 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

Form	pasty
Color	light brown
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	No information available.
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]	not determined
Density [g/ml]	ca. 1 (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	NLGI 2
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]	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

not applicable

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

Substance
Zinc oxide, CAS: 1314-13-2
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: > 15000 mg/kg (IUCID).
LC50, inhalative, Rat: > 5,7 mg/l (4 h) (Lit.).
Calcium dihydroxide, CAS: 1305-62-0
LD50, dermal, Rabbit: > 2500 mg/kg (OECD 402).
LD50, oral, Rat: > 2000 mg/kg (OECD 425).
Benzenesulfonic acid, di-C10-14 alkyl derivs., calcium salts
LD50, dermal, Rabbit: >2000 mg/kg bw (OECD 402)
LD50, oral, Rat: >10000 - <20000 mg/kg bw (Lit.).
LC50, inhalative, Rat: >1,9 mg/l air (EPA OPP 81-3)
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, Compd. with 1,3,5-Triazine-2,4,6-triamine, CAS: 37640-57-6
LD50, oral, Rat: > 2000 mg/kg bw.
Zinc pyrophosphate, CAS: 7446-26-6
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: > 2000 mg/kg bw.
LC50, inhalative, Rat: > 4.73 mg/L.

Serious eye damage/irritation

OECD 405 Non-irritant.

Skin corrosion/irritation

OECD 404 Non-irritant.

Respiratory or skin sensitisation

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

CAS: 1471316-72-9 SCL > 10% Skin Sens. 1B

Specific target organ toxicity — single exposure

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

Specific target organ toxicity — repeated exposure

Toxicological data of complete product are not available.
No classification.
Calculation method

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Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Does contain a relevant substance that meets the classification criteria. No classification. Calculation method
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	Has a degreasing effect on the skin. 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.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Zinc oxide, CAS: 1314-13-2
EC50, (72h), Selenastrum capricornutum: 0,17 mg/l (Lit.).
Calcium dihydroxide, CAS: 1305-62-0
LC50, (96h), fish: 457 mg/l.
LC50, (96h), fish: 50.6 mg/l.
EC50, (72h), Algae: 184.57 mg/l.
EC50, (48h), Daphnia magna: 158 mg/l.
EC50, (48h), Daphnia magna: 49.1 mg/l.
NOEC, (72h), Algae: 48 mg/l.
Benzenesulfonic acid, di-C10-14 alkyl derivs., calcium salts
EL50, (72h), Scenedesmus subspicatus: >100 mg/l (OECD 201).
EL50, (48h), Daphnia magna: >100 mg/l (OECD 202).
LL50, (96h), Oncorhynchus mykiss: >100 mg/l (OECD 203).
Zinc pyrophosphate, CAS: 7446-26-6
LC50, (96h), fish: > 1.948 mg Zn/L.
EC50, (48h), Daphnia magna: 26 mg/L.

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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 applicable

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.

12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

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 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) 150110*
150102

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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

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

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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

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

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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-
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

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

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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 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

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16.3 Other information

Classification procedure

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

Modified position

SECTION 2 deleted: EUH208 May produce an allergic reaction.