

FAG Arcanol LOAD1000

Safety Data Sheet (SDS) according to OSHA-GHS (29 CFR 1910.1200 HCS 2012) (US)

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

1.1 Product identifier

FAG Arcanol LOAD1000

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 Group USA Inc.
308 Springhill Farm Road
Fort Mill, South Carolina 29715 / USA
Phone +1 803 548 8500
Homepage www.schaeffler.us
E-mail info.usa@schaeffler.com

Manufacturer

Schaeffler Technologies AG & Co. KG
Georg-Schäfer-Str. 30
97421 Schweinfurt / GERMANY
Phone +49 (0)9721 91 - 0
Fax +49 (0)9721 91 - 3809
Homepage www.schaeffler.com

Address enquiries to

Technical information

michael.fassbinder@schaeffler.com

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body

US Chemtrec: +1 800 424-9300 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification.

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2.2 Label elements

The product is classified as non-hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

Hazard pictograms	none
Signal word	none
Hazard statements	none
Special labelling	EUH210 Safety data sheet available on request. Contains: Sulfonic acids, petroleum, calcium salts. EUH208 May produce an allergic reaction.

2.3 Other hazards

Other hazards	No particular hazards known.
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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
1 - 2,5	Polysulfides, di-tert-dodecyl CAS: 68425-15-0
0,1 - < 1	Sulfonic acids, petroleum, calcium salts CAS: 61789-86-4
< 1	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates CAS: 80939-62-4
< 0,25	2,6-di-tert-butyl-p-cresol CAS: 128-37-0

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.

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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

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	Alcohol-resistant foam. Dry powder. Water spray jet. Carbon dioxide.
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Extinguishing media that must not be used	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)
Sulphur oxides (SO_x).

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5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
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

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.
Keep container tightly closed.

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7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

**Ingredients with
occupational exposure
limits to be monitored (US)**

Substance
2,6-di-tert-butyl-p-cresol
CAS: 128-37-0, EINECS/ELINCS: 204-881-4
Long-term exposure: 10 mg/m ³ , NIOSH, 2 mg/m ³ - ACGIH A4 (i, h)

DNEL

Substance
Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates, CAS: 80939-62-4
Industrial, dermal, Long-term - systemic effects: 0,03 mg/kg.
Industrial, inhalative, Long-term - systemic effects: 0,2 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
general population, oral, Long-term - systemic effects: 0,01 mg/kg.
general population, dermal, Long-term - systemic effects: 0,01 mg/kg.

PNEC

Substance
Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates, CAS: 80939-62-4
soil, 47,76 mg/kg.
sediment (seawater), 23,96 mg/kg.
sediment (freshwater), 239,64 mg/kg.
sewage treatment plants (STP), 1 mg/l.
seawater, 0,0055 mg/l.
freshwater, 0,055 mg/l.

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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.
In full contact:
> 0,4 mm: Nitrile rubber, >120 min (EN 374-1/-2/-3).

Skin protection Not required under normal conditions.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
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	dark brown
Odor	like mineral oil
Odor threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	> 200°C/ 392°F (Baseoil)
Flammability [°C]	No information available.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapor pressure/gas pressure [kPa]	No information available.
Density [g/ml]	~ 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.
Viscosity	not applicable
Relative vapor density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	> 220°C/ 428°F (DIN ISO 2176)
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

Drop point: ca. 180°C/356°F

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactions with strong oxidizing agents and strong acids.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

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10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents and strong acids.

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

10.4 Conditions to avoid

Strong heating.

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	
inhalative, Based on the information available, the classification criteria have not been fulfilled.:	
dermal, Based on the information available, the classification criteria have not been fulfilled.:	
oral, Based on the information available, the classification criteria have not been fulfilled.:	
Substance	
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0	
LD50, oral, Rat: 2450 mg/kg (IUCLID).	
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0	
LD50, oral, Rat: ca. 20000 mg/kg bw (ECHA).	
Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates, CAS: 80939-62-4	
LD50, dermal, Rat: > 2000 mg/kg (OECD 402).	
LD50, oral, Rat: > 5000 mg/kg (OECD 401).	

Serious eye damage/irritation

Slight irritant effect.
Based on the information available, the classification criteria have not been fulfilled.

Skin corrosion/irritation

Slight irritant effect.
Based on the information available, the classification criteria have not been fulfilled.

Respiratory or skin sensitisation

Toxicological data of complete product are not available.
May produce an allergic reaction.
Calculation method
[CAS-No 61789-86-4: > 10% Skin.Sens. 1B H317]
The classification occurred based on substance-specific concentration limits.

Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Reproduction toxicity

Based on the information available, the classification criteria have not been fulfilled.

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Carcinogenicity

Based on the information available, the classification criteria have not been fulfilled.

Aspiration hazard

Based on the information available, the classification criteria have not been 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

Product
Based on the information available, the classification criteria have not been fulfilled.:
Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LC50, (48h), fish: 5 mg/l (IUCLID).
EC50, (72h), <i>Scenedesmus subspicatus</i> : > 0,42 mg/l (IUCLID).
LC0, (72h), <i>Leuciscus idus</i> : 2000 mg/l (IUCLID).
EC0, (48h), <i>Daphnia magna</i> : > 0,31 mg/l (IUCLID).
Polysulfides, di-tert-dodecyl, CAS: 68425-15-0
LC50, (96h), <i>Danio rerio</i> : >100 mg/L (ECHA).
Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates, CAS: 80939-62-4
LC50, (96h), <i>Oncorhynchus mykiss</i> : 5,5 mg/l (OECD 203).
EC50, (3h), Bacteria: > 100 mg/l (OECD 209).
EC50, (72h), <i>Selenastrum capricornutum</i> : > 10 mg/l (OECD 201).
EC50, (48h), <i>Daphnia magna</i> : 1,2 mg/l (OECD 202).

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

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12.4 Mobility in soil

not applicable

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

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.
In according to RoHS!

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Uncontaminated packaging may be reused.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

SECTION 14: Transport

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

DOT Road Shipment Information (49 CFR) 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"

DOT Road Shipment Information (49 CFR) 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

DOT Road Shipment Information (49 CFR) 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

DOT Road Shipment Information (49 CFR) 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

DOT Road Shipment Information (49 CFR) 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

Observe employment restrictions for people

US Regulations

National regulations

29 CFR 1910.1200 (HCS 2012), OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302 This product does not contain any ingredients regulated under this list.
- SARA, 311 This product does not contain any ingredients regulated under this list.
- SARA, 313 This product does not contain any ingredients regulated under this list.
- CA Proposition 65 No chemical substances in this material are named on the California Proposition 65 list.

- TSCA All chemical substances in this material are comply to the TSCA Inventor.

- FDA not determined

American Conference of Governmental Industrial Hygienists - ACGIH Ingredients not listed as carcinogens.

International Agency for Research on Cancer IARC Ingredients not listed as carcinogens.

National Toxicology Program - NTP not applicable

HAP-VOC not applicable

Transport-regulations DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).

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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.

H400 Very toxic to aquatic life.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

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16.2 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;
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;
CAS = Chemical Abstracts Service;
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;
CFR = Code of Federal Regulations;
CPR = Controlled Products Regulations;
DMEL = Derived Minimum Effect Level;
DNEL = Derived No Effect Level;
DOT = Department of Transportation;
EC50 = Median effective concentration;
EPA = Environmental Protection Agency;
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;
IARC = International Agency of Research on Cancer;
IATA = International Air Transport Association;
TSCA = Toxic Substance Control Act;
HMIS = Hazardous Materials Identification System;
NFPA = National Fire Protection Association;
NIOSH = National Institute for Occupational Safety and Health;
OSHA = Occupational Safety and Health Administration;
LC50 = Lethal concentration, 50%;
LD50 = Median lethal dose, 50%;
MARPOL = International Convention for the Prevention of Marine Pollution from Ships;
PBT = Persistent, Bioaccumulative and Toxic substance;
PNEC = Predicted No-Effect Concentration;
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;
SARA = Superfund Amendments and Reauthorization Act;
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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16.3 Ratings

HMIS Ratings

HEALTH	0	0 - Minimal Hazard
FLAMMABILITY	1	1 - Slight Hazard
PHYSICAL HAZARD	0	0 - Minimal Hazard
PERSONAL PROTECTION	A	A - Safety Glasses

NFPA Ratings

1
0 0
not