

# FAG Arcanol Anticorrosion Oil

## 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 Anticorrosion Oil**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1 Relevant uses

Corrosion protection

##### 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](http://www.schaeffler.us)  
E-mail [info.usa@schaeffler.com](mailto: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](http://www.schaeffler.com)

##### Address enquiries to

##### Technical information

[michael.fassbinder@schaeffler.com](mailto:michael.fassbinder@schaeffler.com)

##### Safety Data Sheet

[sdb@chemiebuero.de](mailto: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

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.

STOT SE 3: H336 May cause drowsiness or dizziness.

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

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### 2.2 Label elements

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

**Hazard pictograms**



**Signal word**

DANGER

**Contains:**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT EINECS: 919-857-5

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from flames and hot surfaces. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.  
P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.

**Special labelling**

EUH066 Repeated exposure may cause skin dryness or cracking.  
Contains: Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts.  
EUH208 May produce an allergic reaction.

### 2.3 Other hazards

**Environmental hazards**

Does not contain any PBT or vPvB substances.

**Other hazards**

none

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### SECTION 3: Composition / Information on ingredients

**Product-type:**

The product is a mixture.

Range [%]	Substance
25 - 50	Butane
	CAS: 106-97-8
5 - 10	Propane
	CAS: 74-98-6
25 - 50	DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
	CAS: 64742-47-8
0, 5 - < 2	Sulfonic acids, petroleum, calcium salts
	CAS: 61789-86-4
0, 5 - < 2	Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts
1 - < 5	2-(2-butoxietóxi)etanol
	CAS: 112-34-5
0,1 - < 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.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>General information</b>	Change soaked clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Seek medical advice immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Headache  
Drowsiness

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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** Water spray jet.  
Dry powder.  
Carbon dioxide.  
Alcohol-resistant 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.  
Bursting aerosols can be forcibly projected from a fire.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Cool containers at risk with water spray jet.  
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

Keep away from all sources of ignition.  
Ensure adequate ventilation.  
Use personal protective equipment.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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### 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Take up residues with absorbent material (e.g. sand).  
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

Provide good room ventilation even at ground level (vapors are heavier than air).  
Keep away from all sources of ignition - Refrain from smoking.  
Vapors can form an explosive mixture with air.  
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

Provide solvent-resistant and impermeable floor.  
Do not store together with oxidizing agents.  
Keep in a cool place, heat causes increase in pressure and risk of bursting.  
Protect from heat/overheating.

### 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 (US)**

Substance
Propane
CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5
Long-term exposure: 1000 ppm, 1800 mg/m <sup>3</sup> , OSHA
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
CAS: 64742-47-8, EINECS/ELINCS: 919-857-5, EU-INDEX: 649-327-00-6, Reg-No.: 01-21194
Long-term exposure: 100 ppm, 400 mg/m <sup>3</sup> , OSHA Z1

#### DNEL

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Industrial, inhalative, Long-term - systemic effects: 5,8 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 8,3 mg/kg.
general population, dermal, Long-term - systemic effects: 5 mg/kg.
general population, inhalative, Long-term - systemic effects: 1,74 mg/m <sup>3</sup> .
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
Industrial, dermal, Long-term - systemic effects: 300 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 1500 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 300 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 900 mg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 300 mg/kg bw/d.
2-(2-butoxi)etanol, CAS: 112-34-5
Industrial, inhalative, Acute - local effects: 101,2 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - systemic effects: 67,5 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 83 mg/kg bw/day.
Industrial, inhalative, Long-term - local effects: 67,5 mg/m <sup>3</sup> .
general population, inhalative, Long-term - local effects: 40,5 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 5 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 50 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 40,5 mg/m <sup>3</sup> .
general population, inhalative, Acute - local effects: 60,7 mg/m <sup>3</sup> .
Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts
Industrial, inhalative, Long-term - systemic effects: 35,26 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 25 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 8,7 mg/m <sup>3</sup> .

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	general population, dermal, Long-term - systemic effects: 12.5 mg/kg bw/day.
	general population, oral, Long-term - systemic effects: 2,5 mg/kg bw/day.
	Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
	Industrial, dermal, Long-term - systemic effects: 3,33 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 11,75 mg/m³.
	general population, dermal, Long-term - systemic effects: 1,667 mg/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 2,9 mg/m³.
	general population, oral, Long-term - systemic effects: 0,8333 mg/kg bw/d.

### PNEC

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
seawater, 0,0004 mg/l.
freshwater, 0,004 mg/l.
oral (food), 16,7 mg/kg.
soil, 1,04 mg/kg.
sediment (freshwater), 1,29 mg/kg.
sewage treatment plants (STP), 100 mg/l.
2-(2-butoxiethoxy)ethanol, CAS: 112-34-5
freshwater, 1,1 mg/l.
oral (food), 56 mg/kg.
sediment (seawater), 0,44 mg/kg.
seawater, 0,11 mg/l.
sewage treatment plants (STP), 200 mg/l.
soil, 0,32 mg/kg.
sediment (freshwater), 4,4 mg/kg.
Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts
freshwater, 0,1 mg/l.
seawater, 0,1 mg/l.
sewage treatment plants (STP), 1000 mg/l.
sediment (freshwater), 45211 mg/kg sediment dw.
sediment (seawater), 45211 mg/kg sediment dw.
soil, 36739,74 mg/kg soil dw.
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
freshwater, 1 mg/l (AF=1000).
seawater, 1 mg/l (AF=10000).
sewage treatment plants (STP), 1000 mg/l (AF=10).
sediment (freshwater), 226 000 000 mg/kg dw.
sediment (seawater), 226 000 000 mg/kg dw.
oral (food), 16 667 mg/kg food.
soil, 271 000 000 mg/kg dw.

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### 8.2 Exposure controls

<b>Additional advice on system design</b>	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.
<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. > 0,4 mm: butyl rubber, > 120 min (EN 374)
<b>Skin protection</b>	Solvent-resistant protective clothing. 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. Do not inhale gases/vapors/aerosols.
<b>Respiratory protection</b>	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2.
<b>Thermal hazards</b>	none
<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

<b>Form</b>	aerosol
<b>Color</b>	light yellow
<b>Odor</b>	characteristic
<b>Odor threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	not applicable
<b>Flash point [°C]</b>	< 0 (ISO 2592)
<b>Flammability [°C]</b>	yes
<b>Lower explosion limit</b>	0,6 Vol. %
<b>Upper explosion limit</b>	8,5 Vol. %
<b>Oxidizing properties</b>	no
<b>Vapor pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/ml]</b>	0,686 (DIN 51 757) (20 °C / 68,0 °F)
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	virtually insoluble
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	not applicable
<b>Relative vapor density determined in air</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	not applicable
<b>Autoignition temperature [°C]</b>	not applicable
<b>Decomposition temperature [°C]</b>	not applicable

#### 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

Stable under normal ambient conditions (ambient temperature).

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### 10.3 Possibility of hazardous reactions

Risk of bursting.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

### 10.4 Conditions to avoid

See SECTION 7

Strong heating.

### 10.5 Incompatible materials

not determined

### 10.6 Hazardous decomposition products

Flammable gases/vapors.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LD50, dermal, Rat: > 5000 mg/kg bw (OECD 402).
LD50, oral, Rat: > 5000 mg/kg bw (OECD 401).
NOAEL, Rat: 100 mg/kg.
NOEL, oral, Rat: 25 mg/kg/28d.
Butane, CAS: 106-97-8
LC50, inhalative, Rat: 658 mg/L (IUCLID).
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
LD50, dermal, Rabbit: > 5000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
LC50, inhalative, Rat: > 4951 mg/m <sup>3</sup> /4h.
Propane, CAS: 74-98-6
LC50, inhalative, Rat: 658 mg/L (IUCLID).
2-(2-butoxiethoxy)ethanol, CAS: 112-34-5
LD50, oral, mouse: 2410 mg/kg bw (OECD 401).
LD50, dermal, Rabbit: 2764 mg/kg bw (OECD 402).
Benzenesulfonic acid, diC10-14 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)
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
LD50, dermal, Rabbit:
LD50, oral, Rat: >5000 mg/kg bw.
LC50, inhalative, Rat: >1.9 mg/L air.

##### 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

Non-sensitizing.  
May produce an allergic reaction.  
Calculation method  
No classification due to toxicological investigations.

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**Specific target organ  
toxicity — single exposure**

Toxicological data of complete product are not available.  
Vapors may cause drowsiness and dizziness.  
Calculation method

**Specific target organ  
toxicity — repeated  
exposure**

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

**Mutagenicity**

No mutagenous properties.  
Based on the information available, the classification criteria have not been fulfilled.

**Reproduction toxicity**

No reprotoxic properties known.  
Based on the information available, the classification criteria have not been fulfilled.

**Carcinogenicity**

No cancerogenic properties known  
Based on the information available, the classification criteria have not been fulfilled.

**Aspiration hazard**

Based on the information available, the classification criteria have been fulfilled.  
The contained dangerous materials are not freely available with foreseeable use.

**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.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LC50, (96h), Danio rerio: > 0,57 mg/l.
EC50, (48h), Daphnia magna: > 0,17 mg/l.
IC50, (72h), Desmodesmus subspicatus: > 0,42 mg/l.
NOEC, (21d), Daphnia magna: > 0,39 mg/l.
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
EL0, (48h), Daphnia magna: 1000 mg/l.
EL50, (72h), Algae: > 1000 mg/l.
NOELR, (72h), Algae: 100 mg/l.
LL50, (96h), Oncorhynchus mykiss: > 1000 mg/l.
2-(2-butoxyetoxi)etanol, CAS: 112-34-5
LC50, (96h), Lepomis macrochirus: 1300 mg/l (OECD 203).
EC50, (96h), Desmodesmus subspicatus: >100 mg/l (OECD 201).
EC50, (48h), Daphnia magna: >100 mg/l (EU C.2).
Benzenesulfonic acid, diC10-14 alkyl derivs., calcium salts
EL50, (48h), Daphnia magna: >100 mg/l (OECD 202).
EL50, (72h), Scenedesmus subspicatus: >100 mg/l (OECD 201).
LL50, (96h), Oncorhynchus mykiss: >100 mg/l (OECD 203).
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
NOEC, (72h), Pseudokirchneriella subcapitata: 1000 mg/l.
LL50, (96h), fish: > 10 000 mg/l.
EC0, (48h), Daphnia magna: >1000 mg/l.

#### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

#### 12.3 Bioaccumulative potential

not determined

#### 12.4 Mobility in soil

not determined

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### 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

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.  
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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.

#### Product

Coordinate disposal with the authorities if necessary.

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

## SECTION 14: Transport

### 14.1 UN number

Transport by land according to ADR/RID 1950

Inland navigation (ADN) 1950

Marine transport in accordance with IMDG 1950

Air transport in accordance with IATA 1950

DOT Road Shipment Information (49 CFR)

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### 14.2 UN proper shipping name

**Transport by land according to ADR/RID** Aerosols

- Classification Code 5F
- Label 
- ADR LQ 1 I
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

**Inland navigation (ADN)** Aerosols

- Classification Code 5F
- Label 


**Marine transport in accordance with IMDG** Aerosols

- EMS F-D, S-U
- Label 
- IMDG LQ 1 I

**Air transport in accordance with IATA** Aerosols, flammable

- Label 

**DOT Road Shipment Information (49 CFR)** UN/NA 1950 Aerosols 2

- Label 

### 14.3 Transport hazard class(es)

**Transport by land according to ADR/RID** 2

**Inland navigation (ADN)** 2

**Marine transport in accordance with IMDG** 2.1

**Air transport in accordance with IATA** 2.1

**DOT Road Shipment Information (49 CFR)**

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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

**DOT Road Shipment Information (49 CFR)** 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

**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 determined



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### SECTION 15: Regulatory information

#### Observe employment restrictions for people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young 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

Not determinated.

##### - SARA, 313

This product contain one ingredient 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

This product is not named NTP - National Toxicology Program.

#### MIR-VOC

~ 88 %

#### Transport-regulations

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

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 03)

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H280 Contains gas under pressure; may explode if heated.

H220 Extremely flammable gas.

# FAG Arcanol Anticorrosion Oil

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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;

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### 16.3 Ratings

#### HMIS Ratings

<b>HEALTH</b>	<b>1</b>	1 - Slight Hazard
<b>FLAMMABILITY</b>	<b>4</b>	4 - Extreme Hazard
<b>PHYSICAL HAZARD</b>	<b>1</b>	1 - Slight Hazard
<b>PERSONAL PROTECTION</b>	<b>B</b>	B - Safety Glasses and Gloves

#### NFPA Ratings

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