SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: ANTICORIT DFO 9301

Other means of identification: For further information, please refer to section 9 of the SDS.

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

Identified uses: Anticorrosion product

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer	Fuchs Schmierstoffe GmbH Friesenheimer Str. 19 68169 Mannheim
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Fax:	+49 621 3701-570
Contact Person:	Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit
Telephone:	+49 621 3701-1333
Fax:	+49 621 3701-7303
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1.4 US contact telephone : 708-333-8900

Emergency telephone: **800-255-3924**

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Health Hazards

Aspiration Hazard	Category 1

Hazard summary

Physical Hazards: Can form flammable vapour-air mixtures during the application.

Health Hazards

Ingestion: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

2.2 Label Elements

Signal Words: Danger

Hazard Statement(s): H304: May be fatal if swallowed and enters airways.

Precautionary Statements

Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331: Do NOT induce vomiting.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

Unknown toxicity: Due to information available product does not contain any ingredients of unknown toxicity.

3 COMPOSITION / INFORMATION ON INGREDIENTS

General information: Mixture based on severely refined mineral base oils with corrosion preventive agents and volatile hydrocarbons.

Chemical name	Identifier	Concentration *	Notes
Hydrocarbons, low viscosity	926-141-6	50.00 - <100.00%	
Glycol derivative	112-34-5	1.00 - <5.00%	
Calcium Sulfonate	61789-86-4	1.00 - <5.00%	
Ca sulfonate	939-603-7	1.00 - <5.00%	
phenolic antioxidant	128-37-0	0.10 - <0.25%	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	
Hydrocarbons, low viscosity	926-141-6	Asp. Tox. 1;H304
Glycol derivative	112-34-5	Eye Irrit. 2;H319
Calcium Sulfonate	61789-86-4	Skin Sens. 1B;H317
Ca sulfonate	939-603-7	Skin Sens. 1B;H317
phenolic antioxidant	128-37-0	Aquatic Acute 1;H400, Aquatic Chronic 1;H410

4 FIRST AID MEASURES

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with water and soap; pay attention: skin degreasing product.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. Headache.

4.3 Indication of any immediate medical attention and special treatment needed Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool.

5.1 Extinguishing media

Suitable extinguishing media: CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

Unsuitable extinguishing media:	Water with a full water jet.
5.2 Special hazards arising from the substance or mixture:	Can form explosive vapor-air mixtures at higher temperatures.

5.3 Advice for firefighters

Special fire fighting procedures:	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	In case of spills, beware of slippery floors and surfaces.
6.2 Environmental Precautions:	Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.
6.4 Reference to other sections:	See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Use only in well-ventilated areas. Risk of vapor concentration on the floor and in low-lying areas. Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities: Store locked up. Local regulations concerning handling and storage of waterpolluting products have to be followed. The precautions for storing and handling of flammable liquids have to be kept. Local regulations for common storage of flammable liquids have to be followed. Do not heat up to temperatures close to the flash point.

7.3 Specific end use(s): not applicable

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure Limits

Chemical name	Type	Exposure Limit Values		Source
Unalloyed mineral oil - Inhalable fraction.	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Unalloyed mineral oil	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Unalloyed mineral oil - Mist.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Unalloyed mineral oil	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Unalloyed mineral oil - Mist.	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
phenolic antioxidant	TWA		10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
phenolic antioxidant - Inhalable fraction and vapor.	TWA		2 mg/m3	US. ACGIH Threshold Limit Values (02 2012)

8.2. Exposure controls

Appropriate engineering controls: Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling.

Skin protection

Hand Protection:	Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: >= 480 min Recommended thickness of the material: >= 0.38 mm Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
Respiratory Protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
Thermal hazards:	No data available.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental Controls:	No data available.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties **Appearance**

Physical state:	liquid
Form:	liquid
Color:	Brown
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	not applicable
Freezing point:	Not applicable for mixtures
Boiling Point:	not applicable
Flash Point:	100 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)–:	Not applicable for mixtures
Flammability Limit - Lower (%)–:	Not applicable for mixtures

Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0.83 g/ml (15.00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Kinematic viscosity:	< 7 mm2/s (40 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
9.2 Other information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Acute toxicity

Oral

Product:

ATEmix: 132,187.5 mg/kg

Specified substance(s)

Hydrocarbons, low viscosity	LD 50 (Rat): > 5,000 mg/kg (OECD 401)
Glycol derivative	LD 50 (Rat): 3,384 mg/kg
Calcium Sulfonate	LD 50 (Rat): > 16,000 mg/kg
phenolic antioxidant	LD 50 (Rat): 2,930 mg/kg (OECD 401)

Dermal

Product:

ATEmix: 11,534.38 mg/kg

Specified substance(s)

Hydrocarbons, low viscosity	LD 50 (Rabbit): > 5,000 mg/kg (OECD 402)
Glycol derivative	LD 50 (Rabbit): 2,700 mg/kg
Calcium Sulfonate	LD 50 (Rat): > 4,000 mg/kg
phenolic antioxidant	LD 50 (Rat): > 5,000 mg/kg (OECD 402)

Inhalation

Product:

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

Hydrocarbons, low viscosity	OECD 404 Not irritant.

Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization:

Product: Experimental data has shown that the concentration of potentially sensitizing components present in this product does not induce skin sensitization.

Specified substance(s)

Hydrocarbons, low viscosity	No sensitizing effect (guinea pig); OECD 406
phenolic antioxidant	No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

NTP: US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

OSHASP: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

Reproductive toxicity

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Aspiration Hazard

Product: May be fatal if swallowed and enters airways.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity

Product: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Hydrocarbons, low viscosity	LC 50 (Fish, 96 h): 1,000 mg/l (OECD 203)
Glycol derivative	LC 50 (Fish, 96 h): 1,300 mg/l
Ca sulfonate	LC 50 (Fish, 96 h): > 101 mg/l
phenolic antioxidant	LC 50 (Fish, 96 h): > 0.57 mg/l (OECD 203)

Aquatic Invertebrates

Specified substance(s)

Glycol derivative	EC 50 (Water Flea, 48 h): > 101 mg/l
Ca sulfonate	EC 50 (Water Flea, 48 h): > 1,001 mg/l
phenolic antioxidant	EC 50 (Water Flea, 48 h): > 0.17 mg/l

Chronic ToxicityProduct: Based on available data, the classification criteria are not met.

Aquatic Invertebrates

Specified substance(s)

phenolic antioxidant	NOEC (Water Flea, 21 d): > 0.39 mg/l

Toxicity to Aquatic Plants

Specified substance(s)

Hydrocarbons, low viscosity	EC 50 (Alga, 72 h): > 1,000 mg/l (OECD 201)
Glycol derivative	EC 50 (Alga, 96 h): > 101 mg/l
Ca sulfonate	EC 50 (Alga, 72 h): > 101 mg/l
phenolic antioxidant	EC 50 (Alga, 72 h): > 0.42 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

Hydrocarbons, low viscosity	(OECD 301F) Readily biodegradable
Calcium Sulfonate	8.6 % Not easily biodegradable
phenolic antioxidant	30 % (OECD 302C)

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

Specified substance(s)

phenolic antioxidant	May be accumulated in organism

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB assessment: The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects: No data available.

13 Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

14 TRANSPORT INFORMATION

DOT

Not regulated.

IMDG - International Maritime Dangerous Goods Code

Not regulated.

IATA

Not regulated.

15 REGULATORY INFORMATION

US Federal Regulations

US State Regulations

Inventory Status

TSCA	On or in compliance with the inventory

16 OTHER INFORMATION

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the R-phrases and H-statements in section 2 and 3

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Revision Date: 31.08.2017

Disclaimer: The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.