

KAESER COMPRESSORS	SAFETY DATA SHEET				KAESER-SIGMA-Fluid SOL
	93/112/EC				
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1. Identity of Substance, Preparation and Company

Product name: KAESER Sigma Fluid SOL Screw Compressor Cooling Oil, 9.1470.0, 9.1471.0

Supplier: KAESER Kompressoren GmbH Telephone ++49 9561 6400
Carl-Kaeser-Straße 26
D-96450 Coburg

User information: Telephone ++49 9561 6400

Emergency telephone number: Telephone ++49 9561 6400

2. Composition/Information on Ingredients

Chemical characterization (preparation description):
Blend of polyalphaolefin based synthetic oil and additives.

Dangerous components:
On the basis of available information, the components of this preparation are not expected to impart hazardous properties to this product.

3. Possible Hazards

Hazards identification:
Prolonged or repeated exposure may give rise to dermatitis.
No specific hazards under normal use conditions.

Safety hazards:
Contains mineral oil for which an exposure limit for oil mist applies.

Environmental hazards:
Avoid spillage
Not readily biodegradable

4. First Aid Measures

Inhalation
Remove victim to the fresh air. If rapid recovery does not occur, obtain medical attention.

Skin:
Remove contaminated clothing and wash affected skin with soap and water. If high pressure injection injuries occur, obtain medical attention immediately.

Eyes:
Rinse immediately with open eyelid and plenty of water for at least 10 minutes and seek medical advice.

Ingestion:
Do not induce vomiting. If rapid recovery does not occur, obtain medical attention.
Advice to physicians: Treat symptomatically.

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5. Fire Fighting Measures

Extinguishing media:

Foam, dry chemical powder, carbon dioxide, sand or earth

Unsuitable extinguishing media:

Water in a jet (safety reasons)

Specific hazards:

Combustion is likely to give rise to a complex mixture of gases and airborne particulates, including carbon monoxide, nitrogen oxide, oxides of sulphur and unidentified organic and inorganic compounds.

Specific protective clothing requirements for fire-fighting:

None

6. Accidental Release Measures

Personal precautions:

Ventilate contaminated area thoroughly. Minimize contact with the skin.

Environmental precautions

Prevent further leakage or spillage and prevent from entering drains. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. If leakage into surface water, into drains or into the ground occurs, inform the appropriate authorities.

Cleaning up measures:

Adsorb or contain liquid with sand, earth or spill control material.
Shovel into a suitable, clearly marked container and dispose of according to local regulations.

7. Handling and Storage

Handling:

Do not eat or drink when using product. When handling product in drums, wear safety footwear and use proper handling equipment. Prevent spillage.

Instructions for protection against fire and explosion

Fire classification to DIN EN2:B

Storage requirements:

Avoid direct sunlight, heat sources and strong oxidizing agents.

Combined storage requirements:

Do not store together with strong oxidising agents.

Recommended materials for containers and container linings:

Mild steel for containers.
High density polyethylene.

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8. Exposure Controls and Personal Protection

Engineering control measures:

Occupational exposure standards:

The product contains no components covered by occupational exposure standards.

Other information:

Respiratory protection:

Not normally required.

If oil mist cannot be controlled, use a respirator fitted with an organic vapour cartridge combined with a particulate pre-filter.

Hand protection:

Use PVC or nitril protective rubber gloves if splashes are likely to occur and if applicable.

Eye protection:

Use safety spectacles.

Body protection:

Avoid all forms of skin contact. Wear overalls at all times.

General hygiene measures:

Do not keep oily rags in your pockets. Wash your hands before eating and drinking.

Do not eat, drink or smoke during work.

9. Physical and Chemical Properties

Physical state:

Form liquid
 Colour yellow

Safety relevant data:

Change of physical state:

pH value NA
 Pour point (DIN ISO 3016) -51 °C
 Flash point (DIN ISO 2592) 240 °C
 Vapour pressure (20 °C) 0.01 hPa
 Density (15 °C) (DIN 51757 D) 872 kg/m³
 Solubility in water (20 °C) negligible
 n-octanol/water partition coefficient NA
 Kinetic viscosity (40 °C) (DIN 51562, part 1) 43.8 mm²/s

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10. Stability and Reactivity

Stability:

Stable under normal conditions of use.

Materials to avoid:

Strong oxidizing agents.

Hazardous decomposition products:

Hazardous decomposition products are not expected to form during normal storage.

11. Toxicological Information

Toxicological data:

Acute toxicity - oral:

LD/LC 50 value: (rats) > 2000 mg/kg

Specific symptomatic results:

Not available

Skin irritation:, eye irritation:

Expected to be slightly irritant

Skin sensitization:

Not expected

Prolonged and/or repeated contact:

Prolonged or repeated contacted may cause defatting of the skin which could lead to dermatitis and may make the skin more sensitive to irritation and penetration by other materials

Carcinogenicity, genotype

The product is based on PAO synthetic oil mutation or reproductive shown to be non-carcinogenic in animal skin endangering effect: painting studies. Other components are not known to be associated with carcinogenic effects.

Human effects:

Other information:

Information given is based on a knowledge of the toxicology of similar products.

12. Ecological Information

Persistence/degradability:

Not readily biodegradable.

Mobility:

Floats on water. Liquid under most environmental conditions. If it enters soil it adsorbs to soil particles and is immobilised. Product has the potential to bioaccumulate in organisms.

Ecotoxicity:

The product is expected to be practically non-toxic to aquatic organisms. EC/LC >100 mg/l.

Other information:

Do not allow the product to escape uncontrolled into the environment.

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13. Disposal Considerations

Product

Precautions:..... Dispose to licensed disposal contractor.

Waste disposal number:..... Germany - 54113 - machine and turbine oils

Containers

Drain container thoroughly:..... Dispose to licensed disposal contractor.

Recommended cleaning procedure:..... Cleaning by disposal contractor.

14. Transport Information

ADR/RID regulations from 1.1.1995:

Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO codes

15. Regulatory Information

EU classification:

NOT CLASSIFIED AS DANGEROUS

Special marking of certain preparations

(to annex II of the Preparation Directive 89/379/EEC):.....not included.

16. Other Information

Additional information:

Concawe Report 5/87, Health Aspects of Lubricants, DGMK Report 400-7.

Data sheet issuing authority:

Service Centre for Research and Product Technology.

The information in this Safety Data Sheet is based on current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.