

KAESER KOMPRESSOREN	SAFETY DATA SHEET 1907/2006/EC				KAESER lubricant for reciprocating compressors FGP 9.0874.0(0010)
	Normal.dotm	Created by: KD-PR-AL Changed by: Pa/QESM	Created on: 04.98	Modified: 03.06.2014 V08	Released by: QESM

1. Identity of substance, preparation, and supplying company

Product trade name: KAESER FGP (FG-150). 9.0874.0(0010)
Supplier: KAESER Kompressoren **SE**
 Carl-Kaesar-Strasse 26
 DE-96450 Coburg
Email: sdb.de@kaeser.com
Technical information: +49 / 9561 / 640-0
Emergency telephone number: Poisons Information Centre Nord Göttingen +49 / +551 / 19240

Application: Cooling oil with corrosion inhibitor

2. Potential Hazards

Eye contact: May cause irritation.
Inhalation: Hydrocarbon mist may make breathing difficult.
Ingestion: May cause diarrhoea.
Skin contact: May irritate after prolonged contact.

3. Composition/Information on Ingredients

Chemical properties PAO-based lubricant and additives

Components	CAS number	Percentage
Synthetic poly alpha olefin (PAO)	68037-01-4	65 – 72
Synthetic olefin	9003-29-6	32 – 35
Synthetic corrosion and wear protection	80939-62-4	0,5 – 1
Synthetic oxidation inhibitor	41484-35-9	0,2 – 0,5
Synthetic ashless EP additive	10254-57-6	0,1 – 0,5
Mixed alkyl diphenyl amine	68411-46-1	0,1 – 0,3

This product contains no hazardous substances within the definition of OSHA regulations 29 CFR 1910.1200.

4. First-aid Measures

Eye contact:
 Rinse open eyes thoroughly for a few minutes under running water. Seek medical help if irritation persists.

Inhalation:
 Clear air passages of oil mist. Seek medical help if respiration difficulty continues.

Ingestion:
 Wash out the mouth immediately. Do not induce vomiting. Obtain medical attention.

Skin contact:
 Wash thoroughly with hand cleanser, followed by soap and water. Contaminated clothing should be dry-cleaned before reuse.

5. Fire-fighting Measures

Suitable extinguishing media:

Foam, powder, carbon dioxide, sand, earth and water mist.

Unsuitable or unsafe extinguishing media:

Powerful water jet.

Special protective equipment for fire fighting:

Self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions

Wear protective gloves and clothing.

Environment protection measures:

Prevent escape and entry into the sewage or surface water systems. Prevent entry into drains, etc. with barriers of sand, earth or other appropriate barriers. Inform the appropriate authority of any spillage of product into surface water drains, ditches, rivers, etc.

Clean-up methods:

Use sand, earth or absorbent material to contain and soak up the spill, place in a suitable marked container and dispose in accordance with local regulations. Large volumes may be pumped.

7. Handling and Storage

Handling:**Notes on safe handling:**

No special handling precautions necessary.

Storage:**Storage room and container requirements:**

Avoid direct sunlight, heat sources and strong oxidising agents.

Storage with other substances:

Do not store with strong oxidising agents.

Shelf-life:

Lubricants should be properly stored in dry conditions with constant temperatures. If the date on the canister/drum is exceeded, the product may still be used. However, its suitability must be checked. Please contact **your supplier**, if you have questions.

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8. Exposure control and personal protection

Engineering control measures

Occupational exposure limits:

ACGIH TLV (max. concentration at place of work according to American Conference of Governmental Industrial Hygienists) 10 mg/m³ as mist.

Additional information on personal precautions:

Respiratory protection:

Not needed under normal conditions of use. If misting occurs, use a protective mask with filters for organic vapours and particles.

Hand protection:

Approved PVC or nitrile protective rubber gloves should be worn if permitted under safety considerations. Otherwise, use skin protective cream.

Eye protection:

Wear safety glasses if splashing could occur.

Body protection:

Minimise all forms of skin contact; wear protective overalls.

General control and monitoring functions:

Do not carry product-soaked cleaning cloth in clothing pockets. Do not eat, drink, smoke or use snuff during work.

9. Physical and chemical properties

Physical properties

Form: Liquid
 Colour: clear
 Odour: mild hydrocarbons

Safety-relevant data:

pH value: Neutral
 Change of physical state
 Boiling point > 371° C (700° F)
 Pour point (DIN ISO 3016) < - 40° C
 Flash point (DIN ISO 2592) and method > 249° C (480° F) COC
 Autoignition temperature > 315° C
 Evaporation rate (butyl acetate) negligible
 Vapour pressure (20° C) < 0.01 kPa
 Volatiles none
 Density (15° C) (DIN 51 757 D) > 800 < 1000 kg/m³ (> 0.8 < 1 g/cm³)
 Flammability (ambient temperature) not flammable
 Fire-provoking characteristics none
 Solubility in water (20° C) insoluble
 Vapour density greater than air
 Kinetic viscosity (40° C) (DIN 51 562, T.1) 135-165 mm²/s (cSt)
 Kinetic viscosity (100° C) (DIN 51 562, T.1) 17.8 mm²/s (cSt)

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10. Stability and reactivity

Conditions to avoid:

Chemically stable when used appropriately under normal conditions. No photo-reactive agents. Powerful sources of ignition and extreme temperatures.

Substances to avoid:

Strong organic and inorganic acids and oxidising agents.

Hazardous decomposition products:

Burning generates smoke, soot, hydrocarbons, CO, CO₂, sulphur and nitrogen oxides. Residue mainly comprises soot and mineral oxides.

11. Toxicological information

Acute toxicity:

Oral LD50 value: > 2000 mg/kg
extrapolated from component data.

Inhalation LC50: not applicable

Skin effects: very mild

Chronic toxicity: not known

Subchronic toxicity: not known

Carcinogenicity:

IARC: no

NTP: no

OSHA: no

Sensitisation:

not known

12. Ecological information

Persistence and degradability:

The product is not completely bio-degradable.

Environmental effects

Floats on water. Remains liquid. Immobilised by absorption in earth particles. No bio-accumulating potential.

Ecotoxicity

The product is almost certainly non-toxic for aquatic or terrestrial organisms.

Further ecological information

Do not allow the product to escape to the environment.

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13. Disposal considerations

Product:

Recommendation: Hand over to an authorised disposal contractor.

Waste disposal code as per AVV (German Waste List Regulation): 130206* synthetic machine, gear, and lubricating oils.

Contaminated packaging:

Recommendation: Empty containers completely.

Hand over to a licensed disposal contractor.

Recommended cleaning agent: Cleaning by recycler.

14. Transport Information

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

15. Regulatory information

..... **Marking according to EC directives:**

..... NOT SUBJECT TO MARKING OBLIGATION

S-phrases: S 3: Keep in a cool place, S16: Keep away from sources of ignition - No smoking.

Special marking and specific preparations:

(as per Annex II of the Dangerous Preparations Directive 88/379/EWG): not listed.

National regulations

Notes on use limitations:no limitations

Industrial accident ordinance:not named in Annex II.

Classification according to German work safety regulations:not classified

Technical Instructions on Air Quality:Class 3 (organic)

Water hazard class:WGK 2 (self declared)

16. Further information

Further information:

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

Approval according to USDA H1/**NSF**, registry number 131270

Safety data sheet directive: Regulation 1907/2006/EC (REACH).

The information in this safety data sheet is based on current knowledge and experience and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not, therefore, be construed as a guarantee of any specific property of the product.