

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 26.05.2009

Revision: 26.05.2009

1 Identification of substance/preparation and of the company/undertaking:

- **Product details:**
- **Trade name:** 167 Moly Synthetic Gear Lube SAE (75 W-140, ISO68, ISO100, ISO150, ISO220, ISO320, ISO460, ISO680)
- **Application of the substance / the preparation** Lubricant
- **Supplier/Manufacturer:**
FGS GmbH
Fahrzeug- und AI- Systeme
Weidenäcker 2
D-78355 Hohenfels
Tel.: +49-7557-9288-0
Fax: +49-7557-9288-18
www.fgs-systems.de
- **Email competent person:** sonja.fischer@kft.de
- **Information department:** See supplier/manufacturer
- **Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

2 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EC" in the latest valid version.
R 43 May cause sensitisation by skin contact.
- **Classification system:**
The classification was made according to the latest editions of the EC-lists, and expanded using company data and specialized literature.
- **Additional information:** DMSO-content <3%

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of Petroleum Hydrocarbons and Additives
- **Dangerous components:**
CAS: 68937-96-2 Polysulfide, Di-tert-butyl- 2.5-10%
EINECS: 273-103-3 Xi; R 43-53
- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:**
Remove contaminated clothing and wash before reuse.
Remove affected persons from danger area and lay them down.
- **After inhalation:** In case of complaints which may be caused by vapours supply fresh air and call for a doctor.
- **After skin contact:**
Wash with water and soap and rinse with plenty of water.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult an eye specialist immediately.

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- **After swallowing:**
 Drink 3-4 glass of milk or water.
 Do not induce vomiting.
 If vomitting occurs spontaneously:
 Hold the head of the casualty low with the body in a prone position in order to avoid penetration of vomit into the air tube (danger of aspiration).
 after swallowing large amounts, call a doctor
- **Information for doctor:**
- **The following symptoms may occur:**
 After swallowing:
 Gastric or intestinal disorders.
 Vomiting
 Diarrhoea
 After inhalation:
 Irritation of mucuous membranes
- **Treatment:** Symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents:**
 Carbon dioxide (CO₂)
 Fire-extinguishing powder
 Sand
 Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards caused by the material, its products of combustion or resulting gases:**
 In case of fire formation of dense black smoke
 Dangerous decomposition product see chapter 10: stability and reactivity
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:**
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:**
 Remove persons from danger area.
 Keep away from ignition sources
 Particular danger of slipping on leaked/spilled product.
 Avoid contact with eyes and skin.
- **Measures for environmental protection:**
 Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to penetrate the ground/soil.
 In case of seepage into the ground inform responsible authorities.
- **Measures for cleaning/collecting:**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dam up larger quantities and pump into containers.
 Ensure adequate ventilation.
 Send for recovery or disposal in suitable receptacles.
 Dispose contaminated material as waste according to item 13.

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7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Avoid inhalation of vapours.
Keep away from heat and direct sunlight.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect from heat.
Keep respiratory protective device available.

- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store container tightly sealed at a cool and dry place with sufficient ventilation.
Store only in unopened original receptacles.
- **Information about storage in one common storage facility:**
do not store with strong oxidizers
Store away from reducing agents.
Store away from foodstuffs.
Store away from feed.
- **Further information about storage conditions:** None.
- **Storage class** 10 Combustible liquids

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures should be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Immediately remove soiled soaked clothing and use again only after washing.
- **Breathing equipment:**
Not necessary, if you follow the instructions for use.



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**
Oil resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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- **Material of gloves:**

The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	green-blue
Odour:	Strong

- **Change in condition:**

Melting point/Melting range: not determined

Boiling point/Boiling range: 300°C

- **Flash point:** 215.56°C (C.O.C. (ASTM D-92))

- **Self ignition temperature:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density:** 0.8702 g/cm³

- **Solubility in / Miscibility with**

Water: Insoluble

- **pH-value:** not applicable

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

- **Materials to be avoided:**

Oxidants

Reducing agents

- **Dangerous reactions:** No dangerous reactions known

- **Dangerous products of decomposition:**

In the case of fire or at high temperatures the formation of the following decomposition products is possible.

Carbon monoxide and carbon dioxide

Sulphur oxides (SO_x)

other decomposition products, in the case of incomplete combustion.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

No toxicity data are available for the product itself.

68937-96-2 Polysulfide, Di-tert-butyl-

Oral LD₅₀ >5000 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Continuing or repeated contact with the skin may cause dermatitis.

- **on the eye:** Slightly irritating

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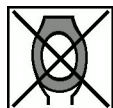
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- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:** For this preparation are no toxicological data available.
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
According to appendix 4 of VwVwS dated 27.7.2005 (German regulation)



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- **Product:**
- **Recommendation:**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal according to instructions of local authorities.

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
No hazardous good according to the regulation.
- **Maritime transport IMDG:**
- **IMDG Class:** -
No hazardous good according to the regulation.
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
No hazardous good according to the regulation.

15 Regulatory information:

- **Markings according to EC guidelines:**
The product has been classified and marked in accordance with EC Directives / Ordinance on Hazardous Materials

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· **Code letter and hazard designation of product:**



Xi Irritant

· **Hazard-determining components of labelling:**

Polysulfide, Di-tert-butyl-

· **Risk phrases:**

43 May cause sensitisation by skin contact.

· **Safety phrases:**

23 Do not breathe vapour.

24 Avoid contact with skin.

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases:**

43 May cause sensitisation by skin contact.

53 May cause long-term adverse effects in the aquatic environment.

· **Department issuing MSDS:**

KFT Chemieservice GmbH

Marienstr. 3 D-64347 Griesheim

Postfach 1451 D-64345 Griesheim

Tel.: +49-6155-823241

Fax: +49-6155-823246

· **Contact:** Dr. Sonja Fischer