

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: 276 Synthetic Food Grade Gear Lube H-1 (ISO 100, ISO 150, ISO 220, ISO 320, ISO 460, ISO 680)**
- **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:** not applicable
- **Information pertaining to particular dangers for man and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Upon heating above the flash point vapours may form explosive mixtures with air.
- **Classification system:**
The classification was made according to the latest editions of the EC-lists, and expanded using company data and specialized literature.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** Void
- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:** If symptoms persist or in case of doubt seek medical advice.
- **After inhalation:** In case of complaints possibly caused by vapours provide fresh air.
- **After skin contact:**
Remove soiled clothes and shoes.
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 a doctor or better an eye specialist.
- **After swallowing:**
Drink 3-4 glass of milk or water.
Do not induce vomiting.
If vomiting occurs spontaneously:
Hold the head of the casualty low with the body in a prone position in order to avoid aspiration.
Never give anything by mouth to a unconscious person.
- **Information for doctor:**
- **The following symptoms may occur:**
After swallowing:

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- Gastric or intestinal disorders.
 - Diarrhoea
 - After inhalation of high concentrations:
 - irritant effect on the respiratory tract
 - Pneumonia
 - **Treatment:** Symptomatic treatment
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5 Fire fighting measures

- **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
Carbon dioxide (CO₂)
Foam
Sand
Water haze
 - **For safety reasons unsuitable extinguishing agents:** Direct jet water
 - **Special hazards caused by the material, its products of combustion or resulting gases:**
Dangerous decomposition product see chapter 10: stability and reactivity
 - **Protective equipment:** Wear self-contained respiratory protective device.
 - **Additional information:**
Cool endangered receptacles with water spray.
When heated above its flash point, this material will release flammable vapors which can burn or be explosive in confined spaces.
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6 Accidental release measures

- **Person-related safety precautions:**
Wear protective clothing.
Particular danger of slipping on leaked/spilled product.
Avid contact with eyes and skin.
 - **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
 - **Measures for cleaning/collecting:**
Absorb with non-combustible material like sand, soil or diatomite.
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
-

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.

Fumes can combine with air to form an explosive mixture.

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- **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:** defend from heat
 - **Storage class** 10 Combustible liquids
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8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
Install appropriate mechanical ventilation.
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.
- **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.

Short term filter device:

Filter A

- **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
- **Material of gloves:**
Neoprene
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:** Safety glasses
- **Body protection:**
According to hazard:
Protective work clothing.
Apron

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9 Physical and chemical properties:

· General Information

Form: viscous liquid
Colour: blue-green
Odour: Petroleum-like

· Change in condition:

Melting point/Melting range: not determined
Boiling point/Boiling range: 300°C

· **Flash point:** 220°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:** 0.8719 g/cm³

· **Solubility in / Miscibility with Water:**

Insoluble

· **pH-value:** not applicable

· Viscosity:

dynamic: high-viscosity
kinematic at 40°C: 90-635 mm²/s

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.
 No decomposition if used and stored according to specifications.
 Conditions to be avoided: see chapter 7

· 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

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

8042-47-5 White mineral oil

Oral LD₅₀ > 5000 mg/kg (rat)
 Dermal LD₅₀ > 3000 mg/kg (rabbit)

122-39-4 diphenylamine

Oral LD₅₀ 1120 mg/kg (rat)
 Dermal LD₅₀ > 2000 mg/kg (rat)

128-37-0 2,6-di-tert-butyl-p-cresol

Oral LD₅₀ > 2930 mg/kg (rat)
 Dermal LD₅₀ > 2000 mg/kg (rat)

· Primary irritant effect:

· **on the skin:**
 No irritating effect.

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- Prolonged or repeated exposure may cause slight skin irritation.
 - **on the eye:** Slightly irritating
 - **Sensitization:** No sensitizing effects known.
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12 Ecological information

- **Ecotoxicological effects:**
 - **Aquatic toxicity:**
For this preparation are no toxicological data available.
 - **122-39-4 diphenylamine**
IC₅₀/72h 1.5 mg/l (scenedesmus subspicatus)
LC₅₀/24h 2.3 mg/l (daphnia magna)
 - **128-37-0 2,6-di-tert-butyl-p-cresol**
EC₀ ≥ 0.17 mg/l (daphnia magna)
(48h)
LC₀ ≥ 0.57 mg/l (brachydanio rerio)
(96h)
 - **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
According to appendix 4 of VwVwS dated 27.7.2005 (German regulation)
Danger to drinking water is possible if large quantities leak into the ground or into water course.
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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.
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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.
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15 Regulatory information:

- **Markings according to EC guidelines:** Observe the general safety regulations when handling chemicals

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- **National regulations**
 - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
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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.

- **Department issuing MSDS:**
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