

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 27.05.2009

Revision: 27.05.2009

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

- **Product details:**
- **Trade name:** **700 Supreme 7000 SAE 15W-40**
- **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 has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EC" in the latest valid version.
- **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: 64742-46-7 | Distillates (petroleum), hydrotreated middle | 2.5-10% |
| EINECS: 265-148-2 | Xn; R 65-66 | |
| Index number: 649-221-00-X | | |
| CAS: 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic | 2.5-10% |
| EINECS: 265-157-1 | Xn; R 65-66 | |
| Index number: 649-467-00-8 | | |
| CAS: 68649-42-3 | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | 2.5-10% |
| EINECS: 272-028-3 | Xi; R 36-52/53 | |
- **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.

(Contd. on page 2)

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 27.05.2009

Revision: 27.05.2009

Trade name: 700 Supreme 7000 SAE 15W-40

(Contd. of page 1)

- **After swallowing:**
 Drink 3-4 glass of milk or water.
 Never give anything by mouth to a unconscious person.
 Call a doctor immediately.
 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 aspiration.
 - **Information for doctor:**
 - **The following symptoms may occur:**
 After swallowing:
 Gastric or intestinal disorders.
 Vomiting
 Diarrhoea
 After inhalation:
 irritant effect on the respiratory tract
 - **Treatment:** Symptomatic treatment
-

5 Fire fighting measures

- **Suitable extinguishing agents:**
 Carbon dioxide (CO₂)
 Fire-extinguishing powder
 Sand
 Water haze
 Use fire fighting measures that suit the environment.
 - **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:**
 Do not inhale combustion vapours.
 Wear self-contained respiratory protective device.
 - **Additional information:**
 Cool endangered receptacles with water spray.
 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.
 Avid 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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— GB —
 (Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 27.05.2009

Revision: 27.05.2009

Trade name: 700 Supreme 7000 SAE 15W-40

(Contd. of page 2)

7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care.
 - Do not use pressure to empty container
 - 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.
Prevent impact and friction.

- **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:** Do not empty container under pressure.
- **Storage class** 10 Combustible liquids

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.
 - 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.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 27.05.2009

Revision: 27.05.2009

Trade name: 700 Supreme 7000 SAE 15W-40

(Contd. of page 3)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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:** Oil resistant protective clothing

9 Physical and chemical properties:

- **General Information**

| | |
|----------------|----------------|
| Form: | Highly viscous |
| Colour: | blue-green |
| Odour: | Petroleum-like |

- **Change in condition:**

Melting point/Melting range: not determined

Boiling point/Boiling range: 315.5°C

- **Flash point:** 236.11°C (C.O.C. (ASTM D92))

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

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

- **Density:** 0.88 g/cm³

- **Solubility in / Miscibility with**

Water: almost insoluble

- **pH-value:** not applicable

- **Viscosity:**

kinematic at 40°C: 102-108 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.

- **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)

Aldehyde

other decomposition products, in the case of incomplete combustion.

GB —
(Contd. on page 5)

Safety Data Sheet

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Revision: 27.05.2009

Trade name: 700 Supreme 7000 SAE 15W-40

(Contd. of page 4)

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
- 68937-96-2 Polysulfide, Di-tert-butyl-**
- Oral LD₅₀ >5000 mg/kg (rat)
- 8042-47-5 White mineral oil**
- Oral LD₅₀ > 5000 mg/kg (rat)
- Dermal LD₅₀ > 3000 mg/kg (rabbit)
- **Primary irritant effect:**
 - **on the skin:** Continuing or repeated contact with the skin may cause dermatitis.
 - **on the eye:** Slightly irritating
 - **Sensitization:** One component may cause allergic reactions.

12 Ecological information

- **Ecotoxic effects:**
 - **Aquatic toxicity:**
- 68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts**
- EC₅₀ 11-36 mg/l (bacteriae)
(3h)
- EC₅₀/48h 1-1.5 mg/l (daphnia magna)
- EC₅₀/96h 1-5 mg/l (Selenastrum capricornutum)
- LC₅₀/96h 1-5 mg/l (Pimephales promelas)
- 68937-96-2 Polysulfide, Di-tert-butyl-**
- EC₅₀ >1000 mg/l (bacteriae)
- EC₅₀/48h >1000 mg/l (daphnia magna)
- EC₅₀/96h 29-39 mg/l (Selenastrum capricornutum)
- LC₅₀/96h (dynamic) >1000 mg/l (fish)
250-500 mg/l (Pimephales promelas)
- **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:**
- Empty pack completely. Do not pierce.

(Contd. on page 6)

Safety Data Sheet

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Trade name: 700 Supreme 7000 SAE 15W-40

(Contd. of page 5)

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
- **Special labelling of certain preparations:**
Contains Polysulfide, Di-tert-butyl-. May produce an allergic reaction.
Safety data sheet available for professional user on request.
- **National regulations**
- **Information about limitation of use:** Restrictions on juvenile employment must be observed.
- **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:**
36 Irritating to eyes.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
- **Department issuing MSDS:**
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Marienstr. 3 D-64347 Griesheim
Postfach 1451 D-64345 Griesheim
Tel.: +49-6155-823241
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- **Contact:** Dr. Sonja Fischer
- **Sources:** MSDS of the supplier