

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: 315 Simplex Supreme Synthetic Blend**
- **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:** Giftinformationszentrale Göttingen Tel.: +49-551-19240

2 Hazards identification

- **Hazard description:**



T Toxic

- **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 61 May cause harm to the unborn child.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65 Harmful: may cause lung damage if swallowed.
- **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 the substances listed below with nonhazardous additions.
 - **Dangerous components:**
- | | | |
|----------------------------|---|--------|
| CAS: 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic | 25-50% |
| 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% |
| EINECS: 272-028-3 | Xi; R 36-52/53 | |
| CAS: 85-68-7 | BBP | < 2.5% |
| EINECS: 201-622-7 | Repr. Cat. 2, 3; T, N; R 61-62-50/53 | |
| Index number: 607-430-00-3 | | |
- **Additional information** For the wording of the listed risk phrases refer to section 16.

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4 First aid measures

- **General information:**

First aid personnel should pay attention to their own safety.

Remove contaminated clothing and wash before reuse.

- **After inhalation:**

Inhalation of product in this form is unlikely. However, under certain conditions forming of noxious gases is possible. In this case: take affected person into fresh air, keep warm and call for a doctor.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult an eye specialist immediately.

- **After swallowing:**

Call a doctor immediately.

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 penetration of vomit into the air tube (danger of aspiration).

- **Information for doctor:**

- **The following symptoms may occur:**

Irritation of eyes and mucous membrane.

After the uptake of large quantities:

Vomiting

Diarrhoea

- **Danger:** Risk of aspiration

- **Treatment:** Symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.

Carbon dioxide (CO₂)

Fire-extinguishing powder

Foam

Water haze

Sand

- **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.

Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:**

Wear protective clothing.

Keep unprotected persons away.

Avoid contact with eyes and skin.

wear protective gloves

- **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).

Ensure adequate ventilation.

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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:**
 - Avoid contact with eyes and skin.
 - Avoid inhalation of vapours formed by heated product.
 - Ensure good ventilation/exhaustion at the workplace.
 - Observe the special requirements for handling carcinogenic, mutagenic chemical substances and those toxic to reproduction as outlined in directive 90/394/EEC in its current version.
 - **Information about protection against explosions and fires:** No special measures required.
 - **Storage**
 - **Requirements to be met by storerooms and receptacles:**
 - Store only in unopened original receptacles.
 - Store away from open flames, sources of heat or sparks.
 - **Information about storage in one common storage facility:**
 - do not store with strong oxidizers
 - Store away from foodstuffs.
 - Store away from feed.
 - For storage observe regulations for toxic materials.
 - **Further information about storage conditions:** Protect from heat and direct sunlight.
 - **Storage class** 6.1A flammable toxic substances
-

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:**
 - 85-68-7 BBP**
 - WEL (Great Britain) Long-term value: 5 mg/m³
 - OEL (Ireland) Long-term value: 5 mg/m³
- **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.
 - Do not eat or drink while working.
 - After skin contact cleanse skin thoroughly.
 - Use skin protection cream for skin protection.
- **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:**
 - Chemical 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:** Safety glasses

- **Body protection:** Light weight protective clothing

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	Brown
Odour:	Mild

- **Change in condition:**

Melting point/Melting range: not determined

Boiling point/Boiling range: 315.5°C

- **Flash point:** 229.44°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:** 0.8519 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:** Strong oxidants

- **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 dioxide

Phosphorus oxides (e.g. P₂O₅)

11 Toxicological information

- **Acute toxicity:**

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

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

Oral LD₅₀ 15000 mg/kg (rat)

64742-88-7 solvent naphtha (petroleum), medium aliph.

Oral LD₅₀ >6500 mg/kg (rat)

Dermal LD₅₀ >3000 mg/kg (rat)

Inhalative LC₅₀/4 h >14 mg/l (rat)

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Oral LD₅₀ 2330 mg/kg (rat)

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- **Primary irritant effect:**

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

- **on the eye:** Slightly irritating

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

12 Ecological information

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

For this preparation are no toxicological data available.

85-68-7 BBP

EC₅₀/48h 1.7 mg/l (daphnia magna)

LC₅₀/96h 0.55 mg/l (Parophyrus vetulus)

1.1 mg/l (Salmo gairdneri)

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)

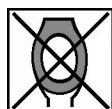
LC₅₀/96h 1-5 mg/l (Pimephales promelas)

- **Remark:** Harmful to fish

- **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.

Harmful to aquatic organisms

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.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** No hazardous good according to the regulation.

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



T Toxic

- **Hazard-determining components of labelling:**
solvent naphtha (petroleum), medium aliph.
Distillates (petroleum), hydrotreated heavy paraffinic
BBP
 - **Risk phrases:**
61 May cause harm to the unborn child.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
 - **Safety phrases:**
23 Do not breathe vapour.
36 Wear suitable protective clothing.
60 This material and its container must be disposed of as hazardous waste.
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
 - **Special labelling of certain preparations:** "Restricted to professional users"
 - **National regulations**
 - **Information about limitation of use:**
Restrictions on juvenile employment must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
 - **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
 - **Other regulations, limitations and prohibitive regulations**
 - **Substances of very high concern (SVHC) according to REACH, Article 57**
85-68-7 BBP
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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.

- **Relevant R-phrases:**
36 Irritating to eyes.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
61 May cause harm to the unborn child.
62 Possible risk of impaired fertility.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.

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· **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

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