

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:** **190 Penetro 90 Spray**
- **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:**
Can form explosive gas-air mixtures. Risk of explosion by heating.
May be irritant to eyes, respiratory tract, skin and mucous membranes.
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 10 Flammable.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Keep out of the reach of children
- **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%
Vapours and aerosols are the main risk for the respiratory tract.

3 Composition/information on ingredients

- **Chemical characterization**
 - **Description:** Mixture of the substances listed below with nonhazardous additions.
 - **Dangerous components:**
- | | | |
|----------------------------|-------------------------------------|---------|
| CAS: 64741-65-7 | Naphtha (petroleum), heavy alkylate | 2.5-10% |
| EINECS: 265-067-2 | Xn; R 53-65-66 | |
| Index number: 649-275-00-4 | | |
|
 | | |
| CAS: 74-98-6 | propane liquefied | < 2.5% |
| EINECS: 200-827-9 | F+; R 12 | |
| Index number: 601-003-00-5 | | |
- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:**
Remove affected persons from danger area and lay them down.

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- Remove contaminated clothing and wash before reuse.
- **After inhalation:**
Remove victim from contaminated area. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Call a doctor.
 - **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
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.
 - **After swallowing:**
Give person 3 - 4 glasses of water
Administer medicinal carbon
Do not induce vomiting; call for medical help immediately.
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 the uptake of large quantities:
Nausea
Diarrhoea
After inhalation of high concentrations:
Headache
Daze
 - **Treatment:** Symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents:**
Fire-extinguishing powder
Carbon dioxide (CO₂)
Sand
Water jet spray
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:** Wear self-contained respiratory protective device.
- **Additional information:**
Heating leads to pressure increase entailing danger of bursting and explosion. Immediately cool neighbouring packages and containers with sprayed water and, if possible, remove them out of the danger zone
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**



Wear protective equipment. Keep unprotected persons away.

- **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.

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- **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.

- **Additional information:**

See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**

- **Information for safe handling:**

Avoid contact with eyes and skin.
 Avoid the formation of oil haze.
 Avoid inhalation of vapours.
 Avoid inhalation of vapours formed by heated product.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
 Use only in well ventilated areas.

- **Information about protection against explosions and fires:**

Product is combustible.
 Do not spray on a naked flame or any incandescent material.



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store container tightly sealed at a cool and dry place with sufficient ventilation.
 Store in a cool location.
 Observe national regulations for storage of flammable liquids.

- **Information about storage in one common storage facility:**

Store away from oxidizing agents.
 Store away from reducing agents.
 Store away from foodstuffs.
 Store away from feed.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.

- **Storage class** 2B pressurized gas containers

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**

Keep away from open flames and other ignition sources.
 No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

74-98-6 propane liquefied

OEL (Ireland) Asphx

- **Additional information:** The lists that were valid during the creation were used as basis.

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- **Personal protective equipment**
- **General protective and hygienic measures:**
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.
Use skin protection cream for skin protection.
- **Breathing equipment:**
Not necessary, if you follow the instructions for use.
In case of unintentional release of substance, exceeding the occupational exposure limit value:
Suitable respiratory protective device recommended.
- **Protection of hands:**
Solvent 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:**
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:	Aerosol
Colour:	Yellow
Odour:	Sweetish

- **Change in condition:**

Melting point/Melting range:	not determined
Boiling point/Boiling range:	260°C

- **Flash point:** 93.3-110°C
- **Self ignition temperature:** Product is not self-igniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Aerosol.
Pressurized container.
Do not pierce.
- **Density:** 0.85 g/cm³
- **Solubility in / Miscibility with Water:** Slightly soluble
- **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
Reducing agents

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- **Dangerous reactions:**

Develops readily flammable gases / fumes

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised

May explode when heated

If heated above flash point explosive vapour/air mixtures may be formed.

- **Dangerous products of decomposition:**

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

Carbon monoxide

Carbon dioxide

11 Toxicological information

- **Acute toxicity:**

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

15890-25-2 Tris(dipentylidithiocarbamate-S,S')antimon

Oral LD₅₀ 16400 mg/kg (rat)

Dermal LD₅₀ 16000 mg/kg (rabbit)

64741-65-7 Naphtha (petroleum), heavy alkylate

Oral LD₅₀ > 6000 mg/kg (rat)

Dermal LD₅₀ > 3000 mg/kg (rabbit)

Inhalative LC₅₀/4 h > 7.8 mg/l (rat)

74-98-6 propane liquefied

Inhalative LC₅₀ >800000 ppm (Ratte)
15 min

75-28-5 isobutane

Inhalative LC₅₀ 570000 ppm (rat)
15 min

- **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.

12 Ecological information

- **Information about elimination (persistence and degradability):**

- **Other information:** No data available

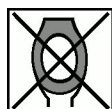
- **Ecotoxicological effects:**

- **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.

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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.

14 Transport information

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



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Label:** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ)** LQ2
- **Transport category** 2
- **Tunnel restriction code** B1D
- **Remarks:** Limited Quantity: 1 kg inner packing, 30 kg packaging unit

- **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label:** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS
- **Remarks:** Limited quantity per inner packing: 1 l
The total gross mass of a packing should not exceed 30 kg.

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label:** 2.1

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- **Packaging group:** -
 - **Proper shipping name:** AEROSOLS, flammable
 - **Remarks:** Packing Instructions:
For Limited Quantities: Y203(Max Net Qty/Pkg: 30 kg G)
Passenger and Cargo Aircraft: 203 (Max Net Qty/Pkg: 75 kg)
Cargo Aircraft only: 203 (Max Net Qty/Pkg: 150 kg)
 - **Transport/Additional information:** Protect from heat!
-

15 Regulatory information:

- **Markings according to EC guidelines:**
Observe the general safety regulations when handling chemicals
The substance(product)is not subject to classification according to EC-directives and other sources of literature known to us.
 - **Risk phrases:**
10 Flammable.
 - **Special labelling of certain preparations:**
Safety data sheet available for professional user on request.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Keep out of the reach of children
 - **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:**
12 Extremely flammable.
53 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:**
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
 - **Sources:** MSDS of the supplier
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