

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: 200 Silver Streak® Multi Lube Spray (Batch 031 and up)**
- **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 10 Flammable.

R 36 Irritating to eyes.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

20.0 % by mass of the contents are flammable

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: 64742-88-7	solvent naphtha (petroleum), medium aliph.	2.5-10%
EINECS: 265-191-7	Xn; R 10-65	
Index number: 650-001-02-5		

CAS: 67-64-1	acetone	2.5-10%
EINECS: 200-662-2	Xi, F; R 11-36-66-67	
Index number: 606-001-00-8		

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CAS: 7429-90-5 aluminium
 EINECS: 231-072-3 F; R 11-15
 Index number: 013-002-00-1

< 2.5%

· **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.
 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
 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:**

Irritation of eyes and mucous membrane.

After skin contact:

Redness of the skin

watering eyes

After inhalation of high concentrations:

Vomiting

Headache

Shivering fit

Daze

Unconsciousness

Cough

· **Treatment:** Symptomatic treatment

5 Fire fighting measures

· **Suitable extinguishing agents:**

Fire-extinguishing powder

Carbon dioxide (CO₂)

Use fire fighting measures that suit the environment.

· **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:**

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.

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

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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.

· **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.
 Avoid contact with eyes and skin.

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



Keep ignition sources away - Do not smoke.

For aerosols you have additionally pay attention to:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
 Product is combustible.
 Protect against electrostatic charges
 Do not spray on a naked flame or any incandescent material.

· **Storage**

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

Store container tightly sealed at a cool and dry place with sufficient ventilation.
 Observe official regulations on storing packagings with pressurized containers.
 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.
 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:** No further data; see item 7.

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· Components with limit values that require monitoring at the workplace:

67-64-1 acetone

IOELV (European Union) Long-term value: 1210 mg/m³, 500 ppm
 WEL (Great Britain) Short-term value: 3620 mg/m³, 1500 ppm
 Long-term value: 1210 mg/m³, 500 ppm
 OEL (Ireland) Long-term value: 1210 mg/m³, 500 ppm
 IOELV

7429-90-5 aluminium

WEL (Great Britain) Long-term value: 10* 4** mg/m³
 *inhalable dust **respirable dust
 OEL (Ireland) Long-term value: 10* 4** ppm
 *inhalable **respirable dust

· **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.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.
 Do not eat or drink while working.
 Avoid skin contact for a longer time.

· **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:**

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: Black
Odour: Solvent-like

· **Change in condition:**

Melting point/Melting range: not determined

Boiling point/Boiling range: 148.89°C

· **Flash point:** 23.89-43-33°C (PMCC)

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- **Self ignition temperature:** Product is not self-igniting.
 - **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
 - **Density at 20°C:** 0.9321 g/cm³
 - **Solubility in / Miscibility with Water:** Insoluble
 - **pH-value:** not applicable
 - **Viscosity:**
dynamic at 40°C: 514.58-643.22 mPas
-

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
 - **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
Carbon dioxide
Ketones
-

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
No toxicity data are available for the product itself.
 - **64742-88-7 solvent naphtha (petroleum), medium aliph.**
Oral LD₅₀ >6500 mg/kg (rat)
Dermal LD₅₀ >3000 mg/kg (rab)
Inhalative LC₅₀/4 h >14 mg/l (rat)
 - **67-64-1 acetone**
Oral LD₅₀ > 2000 mg/kg (rat)
Dermal LD₅₀ > 15800 mg/kg (rabbit)
Inhalative LC₅₀/4 h 76 mg/l (rat)
 - **Primary irritant effect:**
 - **on the skin:**
Irritation of the mucous membrane
Continuing or repeated contact with the skin may cause dermatitis.
 - **on the eye:** Strong irritating effect.
 - **Sensitization:** No sensitizing effects known.
-

12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**
For this preparation are no toxicological data available.
- **67-64-1 acetone**
LC₅₀/48h 12600 mg/l (DM)
7500 mg/l (go)
LC₅₀/96h 6500 mg/l (rainbow trout)

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· **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:** 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 l inner packing, 30 l packing 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

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- **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
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable
- **Remarks:** Packing Instructions:
For Limited Quantities: Y305 (Max Net Qty/Pkg: 1 l)
Passenger and Cargo Aircraft: 305 (Max Net Qty/Pkg: 5 l)
Cargo Aircraft only: 307 (Max Net Qty/Pkg: 60 l)

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:**



Xi Irritant

- **Risk phrases:**
10 Flammable.
36 Irritating to eyes.
- **Safety phrases:**
16 Keep away from sources of ignition - No smoking.
23 Do not breathe aerosol.
24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
51 Use only in well-ventilated areas.
60 This material and its container must be disposed of as hazardous waste.
- **Special labelling of certain preparations:**
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
20.0 % by mass of the contents are flammable
Keep out of the reach of children
- **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.

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· Relevant R-phrases:

- 10 Flammable.
- 11 Highly flammable.
- 15 Contact with water liberates extremely flammable gases.
- 36 Irritating to eyes.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· 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:** Information provided by the manufacturer

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