

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 16.12.2010

Revision: 16.12.2010

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

- **Product details**
- **Trade name:** *Steria Spray*
- **Application of the substance / the preparation** *Lubricant*
- **Manufacturer/Supplier:**  
*Favodent  
 Karl Huber GmbH  
 Greschbachstr. 17  
 76229 Karlsruhe, Germany*
- **Further information obtainable from:** *Frau Apoth. Wolf*
- **Information in case of emergency:** *Tel.: 0179/5146888*

## 2 Hazards identification

- **Hazard description:**



**F+ Extremely flammable**

- **Information concerning particular hazards for human and environment:**

*The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.*

*R 12 Extremely flammable.*

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

*Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.*

*Keep out of the reach of children*

- **Classification system:**

*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*

- **GHS label elements**



**Danger**

*2.3/1 - Extremely flammable aerosol.*

- **Prevention:**

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

*Do not spray on an open flame or other ignition source.*

*Pressurized container: Do not pierce or burn, even after use.*

- **Storage:**

*Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.*

## 3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** *Mixture of substances listed below with nonhazardous additions.*

- **Dangerous components:**

CAS: 74-98-6 EINECS: 200-827-9	propane	<b>F+; R 12</b>	30 - 40%
		<b>Danger:</b> 2.2/1	
		<b>Warning:</b> 2.5/L	
CAS: 106-97-8 EINECS: 203-448-7	butane	<b>F+; R 12</b>	10 - 20%
		<b>Danger:</b> 2.2/1	
		<b>Warning:</b> 2.5/L	

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· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
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.  
Do not spray onto a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Do not seal receptacle gas tight.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**

### 106-97-8 butane

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **As protection from splashes gloves made of the following materials are suitable:** Butyl rubber, BR
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Aerosol Compressed liquefied gas
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** -44°C

· **Flash point:** -97°C

· **Ignition temperature:** 365°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

### · Explosion limits:

**Lower:** 1.5 Vol %  
**Upper:** 10.9 Vol %

· **Vapour pressure at 20°C:** 5300 hPa

· **Density at 20°C:** 0.66 g/cm<sup>3</sup>

### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **General notes:** Generally not hazardous for water

## 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04	gases in pressure containers (including halons) containing dangerous substances

- **Uncleaned packaging:**
- **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:** -
- **Hazard label:** 2.1
- **Description of goods:** 1950 AEROSOLS

- **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label:** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U

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- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS
- **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
- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

## 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**



F+ Extremely flammable

- **Risk phrases:**  
12 Extremely flammable.
- **Safety phrases:**  
9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
33 Take precautionary measures against static discharges.  
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.  
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.  
Keep out of the reach of children

## 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.
- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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*ICAO: International Civil Aviation Organization**ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**· \* **Data compared to the previous version altered.***

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