

Product: Steria[®] Spray

Date of issue: 2007-06-02

Version 01

EC Safety Data Sheet 1907/2006/EC Steria[®] Spray

1. Commercial product name and supplier

Commercial product name: Steria[®] Spray
Application: Care of medical instruments
Producer: FAVODENT Karl Huber GmbH
Greschbachstraße 17
D-76229 Karlsruhe, Germany
Tel.: +49 (0)721/ 62686-0 Fax: +49 (0)721/62686-66
E-Mail: info@favodent.com
TOX emergency number: Ms Apoth. Wolf, phone number: +49 (0)179 / 5146888

2. Hazard identification

F+, Extremely flammable



Additional warning for human and environment:
Container may burst by heating above 50 °C

3. Composition

Chemical characterisation: Mixture of hydrocarbons (propane, butane and isobutane, lubricating oil and mineral oil)

Hazardous components:

<u>Name:</u>	<u>CAS-Nr.</u>	<u>EINECS-Nr.</u>	<u>EG-Ind.-Nr</u>	<u>Kennz.</u>	<u>R-Sätze</u>	<u>Gew. %</u>
n-Butane/ iso-Butane	106-97-8	203-448-7	601-004-00-0	F+	12-18	10-20
Propane	74-98-6	200-827-9	601-003-00-5	F+	12-18	30-40

4. First aid measures

Eye contact:

Flush eyes with plenty of water (10-15min). Call a physician.

Skin contact:

Wash with water and soap immediately.

Ingestion:

After Ingestion call a physician immediately and show packaging or label.

Inhalation:

Take into fresh air. If you feel unwell, seek medical advise (show this data sheet).

Further information:

None

EC Safety Data Sheet 1907/2006/EC

Steria® Spray

5. Fire-fighting measures

Suitable extinguishing media:

Foam, powder, carbon dioxide, water fog

Extinguishing media to avoid:

Do not use direct water stream

Further information:

Cool containers in the vicinity of the blaze using a water spray. Risk of explosion if heated under confinement. Violent eruption of containers may occur under fire conditions.

6. Accidental release measures

Keep away from sources of ignition. No smoking. Do not allow to flow off into the drains. Explosion hazards! Dispose of according to local and national regulation.

7. Handling and storage

Handling:

Only adequately trained personnel should handle this product. Keep out of reach of children.

Industrial hygiene:

Usual hygienic measures are necessary. When using, do not drink, eat or smoke.

Storage:

Do not expose to direct sunshine. Store in cool, dry well ventilated area away from sources of ignition and heat.

Place of storage:

Store in a cool, dry place.

8. Exposure controls / personal protection

Technical equipment:

Provide adequate local ventilation. Control airborne concentration below the exposure guideline.

Control of threshold limits:

CAS-Nr.:

106-97-8 n-Butane MAK: 1000ppm 2350 mg/m³

74-98-6 Propane 1000ppm 1800 mg/m³

Respiratory protection:

Aerosols: Do not breathe vapour or spray. In poorly ventilated areas, use air-purifying respiratory protection apparatus (type A).

Hand protection:

Gloves.

Eye protection:

Safety goggles.

Other:

Eye wash fountain should be located in work area.

EC Safety Data Sheet 1907/2006/EC

Steria® Spray

9. Physical and Chemical Properties

<u>Appearance:</u>	liquefied gas	
<u>Colour:</u>	colourless	
<u>Odour:</u>	practically odourless	
<u>Boiling point:</u>	-40 (Propane)	
<u>Ignition temperature:</u>	285°C	
<u>Flashpoint:</u>	approx. -42°C (Propane)	
<u>Explosion limits:</u>	Lower: 1,4 Vol.%	Upper: 9,5 Vol.% (Propane/Butane)
<u>Vapour pressure:</u>	2,5 - 3,0 bar at 20°C	
<u>Density:</u>	0,54 - 0,62 g/cm ³ at 20°C	
<u>Solubility in water:</u>	not applicable	
<u>pH-Value:</u>	not applicable	

10. Stability and reactivity

<u>Thermal decomposition:</u>	Conditions to avoid see 7.
<u>Hazardous decomposition:</u>	None under normal conditions of storage and use.
<u>Hazardous reactions:</u>	None under normal conditions of storage and use.
<u>Further information:</u>	Extremely flammable product. Avoid ignition sources such as flames or spark producing equipment.

11. Toxicological information

<u>Acute toxicity:</u>	Do not breathe vapour. Signs and symptoms of excessive exposure may be narcotic effects.
<u>Sub acute/chronic toxicity:</u>	None

12. Ecological information

Do not discharge into drains or the environment.
German „Wassergefährdungsklasse“ WGK 1

13. Disposal considerations

Take to a special waste incineration plant, in line with local Regulations.

EC Safety Data Sheet 1907/2006/EC Steria® Spray

14. Transport information

Transport at land (GGVS/GGVE)		
<u>GGVS/E Class:</u>	2.1	
<u>Cipher:</u>	5 F	
<u>UN-No:</u>	1950	
<u>Packing group:</u>	II	
<u>Overland statement:</u>	FI	
Transport at sea (IMDG/GGVSee):		
<u>IMDG/GGVSee-Class:</u>	2.1	
<u>Cipher:</u>	5F	
<u>IMDG-Code page:</u>	2102	
<u>UN-No:</u>	1950	
<u>EMS-Nummer:</u>	2 – 13	
<u>MFAG:</u>	620	
Air transport (ICAO-TI and IATA-DGR):		
<u>ICAO/IATA-Class:</u>	2.1	
<u>UN/ID-No:</u>	1950	
<u>Packing group:</u>	II	
<u>Passenger aircraft:</u>	Packing Instruction Y203	max 30 kg
<u>Cargo aircraft only:</u>	Packing Instruction Y203	max 150 kg
<u>Labels:</u>	RFG flammable gas	

15. Regulatory information

<p>This product requires classification according to the criteria of the EC and the „Gefahrstoffverordnung“</p> <p><u>Hazard designation:</u> F+ Extremely flammable.</p> <p><u>Risk phrases:</u> R 12 Extremely flammable</p> <p><u>Safety phrases:</u> S 9 Keep container in a well-ventilated place S 16 Keep away from sources of ignition – No smoking S 23 Do not breathe vapour or spray S 33 Take precautionary measures against static discharges</p> <p>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 incandescent material. Keep out of the reach of children. During shipment, storage, installation and use, this material should not be exposed to flame or ignition sources.</p>

16. Other information

<p>The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.</p>
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