

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.02.2011

Revision: 15.02.2011

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

**· Product details**

**· Trade name:** Okklusionsspray

**· Application of the substance / the preparation** Auxiliary for dental technology

**· Manufacturer/Supplier:**

Servo-Dental GmbH & Co. KG

Rohrstraße 30

D-58093 Hagen-Halden

Fon: +49 (0)2331 9591-17

Fax: +49 (0)2331 9591-25

www.servo-dental.de

**· Further information obtainable from:** see "Information in case of emergency"

**· Information in case of emergency:**

Landesberatungsstelle

für Vergiftungserscheinungen und Embryonaltoxikologie

Pulsstrasse 3-7

D-14059 Berlin

Fon: +49 (0)30 19240

Fax: +49 (0)30 32680721

## 2 Hazards identification

**· Hazard description:**



F+ Extremely flammable

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

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.

Active substance with propellant

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**· Dangerous components:**


CAS: 75-28-5  
EINECS: 200-857-2

isobutane

 F+; R 12

90-95%

 2.2/1

 2.5/L

· **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>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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.

## 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.
- **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.  
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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.

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- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:** Not required.
- **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:** Natural rubber, NR
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Compressed liquefied gas
<b>Colour:</b>	Different according to colouring
<b>Odour:</b>	Characteristic

### · Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	-11°C

· **Flash point:** Not applicable, as aerosol.

· **Ignition temperature:** 460°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:

<b>Lower:</b>	1.8 Vol %
<b>Upper:</b>	8.5 Vol %

· **Vapour pressure at 20°C:** 3000 hPa

· **Density at 20°C:** 0.6 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Insoluble.

· **Solvent content:**

· **Solids content:** 1-5 %

## 10 Stability and reactivity

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

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· **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
- **Marine pollutant:** No

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· **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.

23 Do not breathe aerosol.

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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