



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2011

Version number 4

Revision: 08.08.2011

1 Identification of the substance/mixture and of the company/ undertaking

- **Product identifier**
- **Trade name:** BEGADI - Silikonspray - 500 ml
- **Application of the substance / the preparation:** in accordance with product designation
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** Begadi GmbH
Dietinger Straße 23
D-78661 Böhringen

Phone: +49(0)7404/914410
Fax: +49(0)7404/914955
- **Further information obtainable from:** Department of product security / see chapter 16
- **Emergency telephone number:** Beratungsstelle bei Vergiftungen, Mainz
Tel. 0049 (0) 6131 / 19240

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12: Extremely flammable.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **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.
Warning! Pressurized container.

- **Classification system:**

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

- **Label elements**

- **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

(Contd. on page 2)

EU



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Trade name: BEGADI - Silikonspray - 500 ml

(Contd. of page 1)

- **Risk phrases:**
 - 12 Extremely flammable.
 - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
 - 2 Keep out of the reach of children.
 - 16 Keep away from sources of ignition - No smoking.
 - 23 Do not breathe smoke.
 - 24/25 Avoid contact with skin and eyes.
 - 51 Use only in well-ventilated areas.
 - 56 Dispose of this material and its container to hazardous or special waste collection point.
- **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 out of the reach of children
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

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

Dangerous components:

| | | |
|--|---|---------|
| CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 | butane F+ R12 Flam. Gas 1, H220; Press. Gas, H280 | 25-50% |
| CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 | propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280 | 25-50% |
| CAS: 64742-49-0 EINECS: 265-151-9 Index number: 649-328-00-1 | Naphtha (petroleum), hydrotreated light Xn R65; Xi R38; F R11; N R51/53 R67 Flam. Liq. 1, H224; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H336 | 2,5-10% |

(Contd. on page 3)

EU



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Trade name: **BEGADI - Silikonspray - 500 ml**

(Contd. of page 2)

| | | |
|--|--|---------|
| CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1 | pentane ☒ Xn R65; ☒ F+ R12; ☒ N R51/53 R66-67 ☒ Flam. Liq. 2, H225; ☒ Asp. Tox. 1, H304; ☒ Aquatic Chronic 2, H411; ☒ STOT SE 3, H336 | 2,5-10% |
| CAS: 92062-15-2 EINECS: 295-529-9 Index number: 649-341-00-2 | Solvent naphtha (petroleum), hydrotreated light naphthenic ☒ Xn R65; ☒ Xi R38; ☒ F R11; ☒ N R51/53 R67 Muta. Cat. 2 ☒ Flam. Liq. 2, H225; ☒ Asp. Tox. 1, H304; ☒ Aquatic Chronic 2, H411; ☒ Skin Irrit. 2, H315; STOT SE 3, H336 | ≤ 2,5% |

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

4 First aid measures

- **Description of 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.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 4)



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Version number 4

Revision: 08.08.2011

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(Contd. of page 3)

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Do not spray onto a naked flame or any incandescent material.
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.
- **Conditions for safe storage, including any incompatibilities**
- **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.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

| | |
|--|-----------------------------------|
| Ingredients with limit values that require monitoring at the workplace: | |
| 109-66-0 pentane | |
| IOELV () | 3000 mg/m ³ , 1000 ppm |

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

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
Do not inhale dust / smoke / mist.

(Contd. on page 5)



Safety data sheet
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Version number 4

Revision: 08.08.2011

Trade name: **BEGADI - Silikonspray - 500 ml**

(Contd. of page 4)

• **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.
Filter A/P2

• **Protection of hands:**



Protective gloves

• **Material of gloves**

Butyl rubber, BR

• **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:**

PVC or PE gloves

• **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form: Aerosol

Colour: Colourless

• **Odour:** Characteristic

• **Odour threshold:** Not determined.

• **pH-value:** Not determined.

• **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: -44°C

• **Flash point:** -97°C

• **Flammability (solid, gaseous):** Not applicable.

• **Ignition temperature:** 200°C

• **Decomposition temperature:** Not determined.

• **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: 1,1 Vol %

Upper: 10,9 Vol %

• **Vapour pressure at 20°C:** 8300 hPa

• **Density at 20°C:** 0,60004 g/cm³

• **Relative density** Not determined.

• **Vapour density** Not determined.

• **Evaporation rate** Not applicable.

• **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

(Contd. on page 6)



Safety data sheet

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Version number 4

Revision: 08.08.2011

Trade name: BEGADI - Silikonspray - 500 ml

(Contd. of page 5)

- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic: Not determined.
 - Kinematic: Not determined.
- **Solvent content:**
 - Organic solvents: 93,9 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

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

64742-49-0 Naphtha (petroleum), hydrotreated light

| | | |
|------------|----------|--------------------|
| Oral | LD50 | > 2000 mg/kg (rat) |
| Dermal | LD50 | > 2000 mg/kg (rat) |
| Inhalative | LC50/4 h | > 20 mg/l (rat) |

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

12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 7)



Safety data sheet
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Version number 4

Revision: 08.08.2011

Trade name: **BEGADI - Silikonspray - 500 ml**

(Contd. of page 6)



Danger to drinking water if even small quantities
leak into the ground.
Harmful to aquatic organisms

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN1950
- **UN proper shipping name**
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **Transport hazard class(es)**
- **ADR**

- **Class** 2 5F Gases.
- **Label** 2.1
- **IMDG, IATA**

- **Class** 2.1
- **Label** 2.1
- **Packing group**
- **ADR, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Gases.
- **Danger code (Kemler):** -
- **EMS Number:** F-D,S-U
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

(Contd. on page 8)



Safety data sheet
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Version number 4

Revision: 08.08.2011

Trade name: BEGADI - Silikonspray - 500 ml

(Contd. of page 7)

- **Transport/Additional information:**
- **ADR**
- **Tunnel restriction code** D
- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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 phrases**
 - H220 Extremely flammable gas.
 - H224 Extremely flammable liquid and vapour.
 - H225 Highly flammable liquid and vapour.
 - H280 Contains gas under pressure; may explode if heated.
 - H304 May be fatal if swallowed and enters airways.
 - H315 Causes skin irritation.
 - H332 Harmful if inhaled.
 - H336 May cause drowsiness or dizziness.
 - H411 Toxic to aquatic life with long lasting effects.
 - R11 Highly flammable.
 - R12 Extremely flammable.
 - R38 Irritating to skin.
 - R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R65 Harmful: may cause lung damage if swallowed.
 - R66 Repeated exposure may cause skin dryness or cracking.
 - R67 Vapours may cause drowsiness and dizziness.
- **Department issuing MSDS:** Sales department
- **Contact:** Mr. Digeser
- **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 international 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
 - ICAO: International Civil Aviation Organization
 - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 - VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
- *** Data compared to the previous version altered.**