

# SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

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## STM 835

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### **1. Identification of the substance/mixture and of the company/undertaking**

#### **1.1. Product identifier**

**Product code** 1114.001

**Synonyms** STM 835

#### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of the Substance/Preparation** Pharmaceutical release agent spray

#### **1.3. Details of the supplier of the safety data sheet**

**Company/Undertaking Identification** SILITECH AG  
Worbstrasse 173  
CH-3073 Gümlingen  
Schweiz/Switzerland  
Tel +41 31 398 50 70  
Fax +41 31 398 50 80  
info@silitech.ch

**1.4. Emergency telephone number** +41 44 251 51 51 (Tox Center)

**Issuing date** 03.06.2014

**Version** GHS 1.0

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## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)**

Aerosols, Cat. 1, H222 H229

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

F+; R12

**Additional information**

For the full text of the phrases mentioned in this Section, see Section 16.

### 2.2. Label elements



**Signal Word**

Danger

**Hazard Statements**

H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated.

**Precautionary statements**

P102: Keep out of reach of children.  
P210b: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211: Do not spray on an open flame or other ignition source.  
P251: Do not pierce or burn, even after use.  
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Additional advice**

None.

**GHS product identifier**

Isobutan, CAS-No. 75-28-5, EC-No. 200-857-2  
Propane, CAS-No. 74-98-6, EC-No. 200-827-9  
Butane, CAS-No. 106-97-8, EC-No. 203-448-7

**Labelling according to Directives 67/548/EEC or 1999/45/EC**



F+ - Extremely flammable.

**R-phrases(s)**

R12: Extremely flammable.

**S-phrases(s)**

S9: Keep container in a well-ventilated place.  
S16: Keep away from sources of ignition - No smoking.  
S33: Take precautionary measures against static discharges.

**Hazardous component(s) which must be listed on the label**

None.

### 2.3. Other hazards

No information available.

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### 3. Composition/information on ingredients

#### Chemical characterization

Low-viscosity silicone oil Silbione® for the food and cosmetic industry

Components		CLP Classification	DSD/DPD Classification	Product identifier
Polydimethylsiloxan	5% - 10%			CAS-No.: 63148-62-9
Isobutan	75% - 90%	Flam. Gas 1 H220, Press. Gas H280	F+; R-12	CAS-No.: 75-28-5 EC-No.: 200-857-2
Propane	5% - 10%	Flam. Gas 1 H220, Press. Gas H280 , Notes U	F+; R-12	CAS-No.: 74-98-6 EC-No.: 200-827-9 Index-No: 601-003-00-5
Butane	2.5% - 5%	Flam. Gas 1 H220, Press. Gas H280 , Notes C U	F+; R-12, Notes C	CAS-No.: 106-97-8 EC-No.: 203-448-7 Index-No: 601-004-00-0

For the full text of the phrases mentioned in this Section, see Section 16.

#### Hazardous impurities

None known.

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### 4. First aid measures

#### 4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
Skin contact	Wash with water and soap as a precaution. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Obtain medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

None known.

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## **5. Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** Use dry chemical, CO<sub>2</sub>, water spray or alcohol foam.

**Extinguishing media which must not be used for safety reasons** High volume water jet.

**5.2. Special hazards arising from the substance or mixture** Closed containers may explode due to pressure build-up when subjected to excessive heat or intense fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

### **5.3. Advice for firefighters**

**Special protective equipment for firefighters** Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes. Wear protective suit.

**Specific methods** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers.

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## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**Advice for non-emergency personnel** Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust. Remove all sources of ignition. Pay attention to flashback.

**Advice for emergency responders** Immediately evacuate personnel to safe areas. Remove all sources of ignition. Pay attention to flashback. Prevent unauthorised persons entering the zone.

**6.2. Environmental precautions** No special environmental precautions required.

**6.3. Methods and material for containment and cleaning up** Keep in suitable and closed containers for disposal.

**6.4. Reference to other sections** See chapter 8 and 13.

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## **7. Handling and storage**

**7.1. Precautions for safe handling** Wear personal protective equipment. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharges.

**7.2. Conditions for safe storage, including any incompatibilities** Store in a place accessible by authorized persons only. Store in original container.

### 7.3. Specific end use(s)

No information available.

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit(s)

No data is available on the product itself.

#### Butane (CAS 106-97-8)

United Kingdom - Workplace  
Exposure Limits (WELs) - STELs  
United Kingdom - Workplace  
Exposure Limits (WELs) - TWAs

750 ppm STEL  
1810 mg/m<sup>3</sup> STEL  
600 ppm TWA  
1450 mg/m<sup>3</sup> TWA

### 8.2. Exposure controls

#### Occupational exposure controls

Handle in accordance with good industrial hygiene and safety practice.

#### Personal protection equipment

##### *Respiratory protection*

In case of insufficient ventilation wear suitable respiratory equipment.

##### *Hand protection*

Normally none needed. Use gloves if repeated or prolonged contact is expected.

##### *Eye protection*

Avoid contact with eyes.

##### *Skin and body protection*

No special measures required.

#### Thermal hazards

Keep product and empty container away from heat and sources of ignition.

#### Environmental exposure controls

No special measures required.

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## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form	Aerosol.
Colour	clear to milky emulsion
Odour	Solvent.
Odour Threshold	No information available.
pH:	No information available.
Melting point/range:	No information available.
Boiling point/range:	No information available.
Flash point:	-83 °C (CAS 75-28-5)
Evaporation Rate:	No information available.
Flammability:	highly flammable
Explosion limits:	1,5 Vol.% - 9,4 Vol.% (CAS 75-28-5)
Vapour pressure:	No information available.

<b>Vapor density:</b>	No information available.
<b>Relative density:</b>	No information available.
<b>Water solubility:</b>	No information available.
<b>Partition coefficient (n-octanol/water):</b>	No information available.
<b>Autoignition temperature:</b>	460 °C (CAS 75-28-5)
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Combustion/explosion hazards:</b>	flammable aerosol
<b>Oxidizing properties:</b>	None

## 9.2. Other information

<b>General Product Characteristics</b>	No information available.
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## 10. Stability and reactivity

<b>10.1. Reactivity</b>	Risk of ignition.
<b>10.2. Chemical stability</b>	No information available.
<b>10.3. Possibility of hazardous reactions</b>	Spray mist may be flammable at temperatures below the flash point of the solvents.
<b>10.4. Conditions to avoid</b>	Take precautionary measures against static discharges. Heat, flames and sparks.
<b>10.5. Incompatible materials</b>	None.
<b>10.6. Hazardous decomposition products</b>	None reasonably foreseeable.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	No data is available on the product itself. <b>Isobutane (CAS 75-28-5)</b> Inhalation LC50 Rat = 658 mg/L 4 h (IUCLID) <b>Propane (CAS 74-98-6)</b> Inhalation LC50 Rat = 658 mg/L 4 h (IUCLID) <b>Butane (CAS 106-97-8)</b> Inhalation LC50 Rat = 658 g/m3 4 h (NLM_CIP)
<b>Skin corrosion/irritation</b>	None.
<b>Serious eye damage/eye irritation</b>	None.
<b>Respiratory / Skin Sensitisation</b>	None.
<b>Carcinogenicity</b>	Carcinogenicity classification not possible from current data.

<b>Germ cell mutagenicity</b>	Classification not possible from current data.
<b>Reproductive toxicity</b>	Classification not possible from current data.
<b>Specific target organ toxicity (single exposure)</b>	No data available.
<b>Specific target organ toxicity (repeated exposure)</b>	No data available.
<b>Aspiration hazard</b>	No data available.
<b>Human experience</b>	No data available.

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## ***12. Ecological information***

<b>12.1. Toxicity</b>	No data is available on the product itself.
<b>12.2. Persistence and degradability</b>	Expected to be biodegradable.
<b>12.3. Bioaccumulative potential</b>	Bioaccumulation is unlikely.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	No information available.
<b>12.6. Other adverse effects</b>	No information available.

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## ***13. Disposal considerations***

### **13.1. Waste treatment methods**

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 40 °C.
<b>Contaminated packaging</b>	Dispose of as unused product. Empty pressure vessels should be returned to the supplier.

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## 14. Transport information

<b>ADR/RID</b>	Proper shipping name AEROSOLS, flammable (Isobutan) UN No 1950. Class 2. ADR/RID-Labels 2.1. Classification code 5F. Risk No. 23. Limited quantity 1 L. Tunnel code D
<b>IMDG</b>	Proper shipping name Aerosols, flammable (Isobutan) UN No 1950. Class 2. Packing group -. IMDG-Labels 2.1. Limited quantity Siehe SV277. EmS F-D, S-U. Marine Pollutant no
<b>IATA</b>	Proper shipping name Aerosols, flammable (Isobutan) UN No 1950. Class 2.1. IATA label 2.1. Packing instruction (passenger aircraft): 203 (75 kg). Packing instruction (LQ): Y203 (30 kg G). Packing instruction (cargo aircraft): 203 (150 kg).
<b>Further Information</b>	None.

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## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Regulatory Information</b>	The product is classified and labelled according to Regulation (EC) No. 1272/2008 (GHS/CLP).
<b>Isobutane (CAS 75-28-5)</b>	
EU - Cosmetics (1223/2009) - Annex II - Prohibited Substances	Prohibited (containing $\geq 0.1\%$ w/w Butadiene)
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See item 28. Use restricted. See item 29.
EU - REACH (1907/2006) - List of Registered Substances	Present
UN (United Nations) - Selected Volatile Substances Prone to Abuse	Present
<b>Propane (CAS 74-98-6)</b>	
EU - REACH (1907/2006) - List of Registered Substances	Present
UN (United Nations) - Selected Volatile Substances Prone to Abuse	Present
<b>Butane (CAS 106-97-8)</b>	



EU - Cosmetics (1223/2009) - Annex II - Prohibited Substances	Prohibited (containing $\geq 0.1\%$ w/w Butadiene)
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See item 28. Use restricted. See item 29.
EU - REACH (1907/2006) - List of Registered Substances	Present
UN (United Nations) - Selected Volatile Substances Prone to Abuse	Present
<b>15.2. Chemical safety assessment</b>	Not required.

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## 16. Other information

<b>Key or legend to abbreviations and acronyms</b>	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)
<b>Key literature references and sources for data</b>	Information taken from reference works and the literature.
<b>Classification procedure</b>	Calculation method.
<b>Full text of phrases referred to under sections 2 and 3</b>	H220: Extremely flammable gas. H222 H229 H280: Contains gas under pressure; may explode if heated.  R12: Extremely flammable.
<b>Further information</b>	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 40 °C.
<b>Disclaimer</b>	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.