

SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

STM 835

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)

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Version GHS 1.0

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)

R12: Extremely flammable.

S-phrases)

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.

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.

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.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, 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.

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.

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.

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	750 ppm STEL 1810 mg/m ³ STEL
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	600 ppm TWA 1450 mg/m ³ 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.

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.

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

9.2. Other information

General Product Characteristics	No information available.
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10. Stability and reactivity

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

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on the product itself. Isobutane (CAS 75-28-5) Inhalation LC50 Rat = 658 mg/L 4 h (IUCLID) Propane (CAS 74-98-6) Inhalation LC50 Rat = 658 mg/L 4 h (IUCLID) Butane (CAS 106-97-8) Inhalation LC50 Rat = 658 g/m ³ 4 h (NLM_CIP)
Skin corrosion/irritation	None.
Serious eye damage/eye irritation	None.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Carcinogenicity classification not possible from current data.

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

12. Ecological information

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

13. Disposal considerations

13.1. Waste treatment methods

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

14. Transport information

ADR/RID	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
IMDG	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
IATA	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).
Further Information	None.

15. Regulatory information

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

Regulatory Information	The product is classified and labelled according to Regulation (EC) No. 1272/2008 (GHS/CLP).
Isobutane (CAS 75-28-5)	
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
Propane (CAS 74-98-6)	
EU - REACH (1907/2006) - List of Registered Substances	Present
UN (United Nations) - Selected Volatile Substances Prone to Abuse	Present
Butane (CAS 106-97-8)	

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
15.2. Chemical safety assessment	Not required.

16. Other information

Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)
Key literature references and sources for data	Information taken from reference works and the literature.
Classification procedure	Calculation method.
Full text of phrases referred to under sections 2 and 3	H220: Extremely flammable gas. H222 H229 H280: Contains gas under pressure; may explode if heated. R12: Extremely flammable.
Further information	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 40 °C.
Disclaimer	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.