

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Jul-2017

Print date: 05-Mar-2019

Version: 4

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Silikonspray - H1

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

1.1. Product identifier

Trade name/designation:

Silikonspray - H1

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

Use of the substance/mixture:

Lubricants, greases, release products

Uses advised against:

Sector of uses [SU]

SU 21: Consumer uses

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Jost Chemicals GmbH

Gottlieb-Daimler-Str. 10

69514 Laudenbach

Germany

Telephone: 0049-6201-42810

Telefax: 0049-6201-45590

E-mail: info@jost-chemicals.de

Website: www.jost-chemicals.de

1.4. Emergency telephone number

R&D, Telefon auskunftgebender Bereich: 0049-(0)6201-42810, Notfallauskunft: R&D (Mo - Fr. 08.00 - 16.00 Uhr), 24h: +49-(0)157-73741921, +49-(0)6201-42810 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS09
Environment

Signal word: Danger

Hazard components for labelling:

2-methylpentane; 2-methylbutane

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hazard statements for physical hazards

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

hazard statements for health hazards

H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

Hazard statements for environmental hazards

H411	Toxic to aquatic life with long lasting effects.
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Supplemental Hazard information (EU)

EUH018	In use may form flammable/explosive vapour-air mixture.
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Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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Precautionary statements Storage

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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2.3. Other hazards

Adverse physicochemical effects:

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of following substances and silicone.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 106-97-8 EC No.: 203-448-7 REACH No.: 01-2119474691-32	butane Flam. Gas 1, Press. Gas Danger H220	28 - 48 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21	propane Flam. Gas 1, Press. Gas Danger H220	14 - 24 Vol-%
CAS No.: 107-83-5 EC No.: 203-523-4 REACH No.: 01-2119484651-34-0000	2-methylpentane Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 2, STOT SE 3, Skin Irrit. 2 Danger H225-H304-H315-H336-H411	10 - 17 Vol-%

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product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 78-78-4 EC No.: 201-142-8 REACH No.: 01-2119475602-38-0000	2-methylbutane Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 1, STOT SE 3 Danger H224-H304-H336-H411-EUH066	3 - 5 Vol-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Observe risk of aspiration if vomiting occurs.

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

Pneumonia Pulmonary oedema Skin corrosion/irritation Drowsiness Dizziness

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray Foam

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon monoxide
Carbon dioxide (CO₂)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

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Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Emergency cooling must be provided for in case of a fire in the vicinity.

Measures to prevent aerosol and dust generation:

Provide adequate ventilation as well as local exhaustion at critical locations.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep/Store only in original container.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs

Storage class: 2B - Aerosol dispensers and lighters

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	butane CAS No.: 106-97-8	① 1,000 ppm (2,400 mg/m ³) ② 4,000 ppm (9,600 mg/m ³)
TRGS 900 (DE)	propane CAS No.: 74-98-6	① 1,000 ppm (1,800 mg/m ³) ② 4,000 ppm (7,200 mg/m ³)
TRGS 900 (DE)	2-methylpentane CAS No.: 107-83-5	① 500 ppm (1,800 mg/m ³) ② 1,000 ppm (3,600 mg/m ³)
TRGS 900 (DE)	2-methylbutane CAS No.: 78-78-4	① 1,000 ppm (3,000 mg/m ³) ② 2,000 ppm (6,000 mg/m ³)
IOELV (EU)	2-methylbutane CAS No.: 78-78-4	① 1,000 ppm (3,000 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) min In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: transparent

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			

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parameter		at °C	Method	Remark
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	< -40 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	≈ 425 °C			
Upper/lower flammability or explosive limits	1.5 - 8.5 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.665 - 0.667 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable gas. Risk of explosion if heated under confinement.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No data available

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
106-97-8	butane	LC₅₀ Acute inhalation toxicity (gas): >658 ppmV 4 h (Rat)
74-98-6	propane	LD₅₀ oral: 5,050 mg/kg (Rat) LD₅₀ dermal: 12,800 mg/kg (Rabbit)
107-83-5	2-methylpentane	LD₅₀ oral: 5,000 mg/kg (Ratte) OECD LD₅₀ dermal: 3,000 mg/kg (Ratte) OECD LC₅₀ Acute inhalation toxicity (gas): 20 mg/l 4 h (Ratte) OECD
78-78-4	2-methylbutane	LC₅₀ Acute inhalation toxicity (gas): 1,280 mg/l 4 h (Ratte)

Acute oral toxicity:

There are no data available on the mixture itself.

Acute dermal toxicity:

There are no data available on the mixture itself.

Acute inhalation toxicity:

There are no data available on the mixture itself.

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

STOT-single exposure:

May cause respiratory irritation.

Aspiration hazard:

The classification criteria for this hazard class are not met by definition.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
74-98-6	propane	LC₅₀: 4,200 - 11,100 mg/l 4 d LC₅₀: 1,400 mg/l 2 d
107-83-5	2-methylpentane	LC₅₀: >3.87 mg/l 2 d (Daphnia magna (Big water flea))
78-78-4	2-methylbutane	LC₅₀: 3.1 mg/l (Fische) EC₅₀: 2.3 mg/l (Daphnien)

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Terrestrial toxicity:

There are no data available on the mixture itself.

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12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
106-97-8	butane	—
74-98-6	propane	—
107-83-5	2-methylpentane	—
78-78-4	2-methylbutane	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate authorities about waste disposal.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

16 05 04 * Gases in pressure containers (including halons) containing hazardous substances

*: Evidence for disposal must be provided.

Waste code packaging:

15 01 10 * packaging containing residues of or contaminated by dangerous substances




*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
14.1. UN-No.			
UN 1950	UN 1950	UN 1950	
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	
14.4. Packing group			
No data available			

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
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14.5. Environmental hazards

		 MARINE POLLUTANT	
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14.6. Special precautions for user

Special provisions: Limited quantity (LQ): LQ: 1L Excepted Quantities: Hazard identification number (Kemler No.): Classification code: F Remark:	Special provisions: Limited quantity (LQ): Excepted Quantities: Classification code: F Remark: PAX: 203	Special provisions: Limited quantity (LQ): Excepted Quantities: EmS-No.: F-D; S-U Remark:	
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

22 JArbSchG.

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

Data arise from reference works and literature.

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol.; Pressurised container: May burst if heated.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental Hazard information (EU)	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.