

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2014

Revision: 09.02.2014

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

- 1.1 Product identifier
- Trade name: **SILKOSPRAY**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use
 - SU20 Health services
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU21 Consumer uses: Private households / general public / consumers
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU12 Manufacture of plastics products, including compounding and conversion
- Product category PC24 Lubricants, greases, release products
- Application of the substance / the preparation:
 - Maintenance product
 - Coating
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 - WillyRüsch GmbH
 - Williy-Rüsch-Strasse 4 - 10
 - 71394 Kernen
 - Tel.: +49(0)7151 / 406 - 0
 - Fax: +49(0) 7151 / 406 - 150
- Informing department: Product safety department.
- 1.4 Emergency telephone number: Fon: +49(0)7151 / 406 - 0

2 Hazards identification

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



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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



F+; Extremely flammable

R12: Extremely flammable.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
 - The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS02

- Signal word Danger
- Hazard statements
 - H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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- Precautionary statements
 - P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - P103 Read label before use.
 - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 - P251 Pressurized container: Do not pierce or burn, even after use.
 - P211 Do not spray on an open flame or other ignition source.
 - P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- Additional information:
 - Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
 - 100.0 % by mass of the contents are flammable
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- 3.2 Chemical characterization: Mixtures
- Description:
 - Solvent mixture.
 - Spray
- Dangerous components:

CAS: 106-97-8	butane, pure	<60%
EINECS: 203-448-7	 F+ R12	
	 Flam. Gas 1, H220; Press. Gas, H280	

4 First aid measures

- 4.1 Description of first aid measures
 - General information Instantly remove any clothing soiled by the product.
 - After inhalation Supply fresh air; consult doctor in case of symptoms.
 - After skin contact The product is generally no skin irritant.
 - After eye contact Rinse opened eye for several minutes under running water.
 - After swallowing Seek immediate medical advice.
- 4.2 Most important symptoms and effects, both acute and delayed Dazed
- 4.3 Indication of any immediate medical attention and special treatment needed
 - No further relevant information available.

5 Firefighting measures

- 5.1 Extinguishing media
 - Suitable extinguishing agents
 - CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
 - For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
 - Protective equipment: Wear self-contained breathing apparatus.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 - Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- 6.3 Methods and material for containment and cleaning up:
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Ensure adequate ventilation.

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- 6.4 Reference to other sections
See Section 8 for information on personal protection equipment.

7 Handling and storage

- 7.1 Precautions for safe handling Open and handle container with care.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Initiate measures against electrostatic charging.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers:
Observe official regulations on storing packagings with pressurized containers.
Store in cool location.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions:
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- 8.1 Control parameters
- Components with limit values that require monitoring at the workplace:
74-98-6 propane liquefied (25-50%)
OES Asphyxiant
- 106-97-8 butane, pure (25-50%)**
OES Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
- Additional information: The lists that were valid during the compilation were used as basis.
- 8.2 Exposure controls
- Personal protective equipment
- General protective and hygienic measures
Keep away from foodstuffs, beverages and food.
Wash hands during breaks and at the end of the work.
- Breathing equipment: Use breathing protection in case of insufficient ventilation.
- Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- 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.

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- Eye protection: Tightly sealed safety glasses.

9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
 - General Information
 - Appearance:

Form:	Aerosol
Colour:	Colourless
 - Odour: Characteristic
 - Change in condition

Melting point/Melting range:	<0 °C
Boiling point/Boiling range:	-44 °C
 - Flash point: -97 °C
 - Ignition temperature: 200 °C
 - Self-inflammability: Product is not selfigniting.
 - Danger of explosion: Product is not explosive. However, formation of explosive air/steam mixtures is possible.
 - Critical values for explosion:

Lower:	0.8 Vol %
Upper:	10.9 Vol %
 - Vapour pressure at 20 °C: ca.8000 hPa
 - Density at 20 °C: ca.0.6 g/cm³
 - Solubility in / Miscibility with Water: Insoluble
 - Solvent content:

Organic solvents:	0.0 %
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- 9.2 Other information: No further relevant information available.

10 Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions: Can react violently with oxygen rich (oxidizing) material.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Inflammable gases/vapours

11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification:

Siliconöl

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

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106-97-8 butane, pure

Inhalative LC50 (4 h) 658 mg/l (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritant effect.
- Sensitization: No sensitizing effect known.
- Additional toxicological information:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability Not easily biodegradable
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

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

14 Transport information

- 14.1 UN-Number
- ADR, IMDG, IATA
- 14.2 UN proper shipping name
- IMDG
- IATA
- 14.3 Transport hazard class(es)
- ADR



- Class

1950
AEROSOLS
AEROSOLS, flammable

2 5F Gases.

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· Label	2.1
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· IMDG	
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· Class	2 Gases.
· Label	2.1

· IATA	
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· Class	2.1
· Label	2.1
· 14.4 Packing group	
· ADR	Void
· IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Gases.
· Kemler Number:	-
· EMS Number:	F-D,S-U
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

· Transport/Additional information:	
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· ADR	
· Limited quantities (LQ)	LQ2
· Transport category	2
· Tunnel restriction code	D
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Technical instructions (air):
- Class Share in %
- III 100.0
- Water hazard class: Water hazard class 1 : slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they 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.
- H280 Contains gas under pressure; may explode if heated.
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- R12 Extremely flammable.

· Department issuing data specification sheet: Environment protection department.

· Contact: Abteilung Labor

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

. * Data compared to the previous version altered.

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