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

· **1.1 Product identifier**

· **Trade name:** **Silikonspray**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture** Lubricant

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Fermit GmbH
Zur Heide 4,
D- 53560 Vettelschoß
www.fermit.de

· **Informing department:**
Tel.: +49 (0) 2645-2207
Fax: +49 (0) 2645-3113
Email: info@fermit.de

· **1.4 Emergency telephone number:** Tel.: +49 (0) 2645-2207

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SECTION 2: Hazards identification

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


flame

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


environment

Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

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

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· **Hazard pictograms**

GHS02 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrotreated light
propan-2-ol

· **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**
P102 Keep out of reach of children.
P210 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.
P280 Wear eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of the substances listed below including additives not requiring identification.

· **Dangerous components:**		
CAS: 64742-49-0 EINECS: 265-151-9 Reg.nr.: 01-2119475133-43-X	Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25 - 50%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-X	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 - 25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-X	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 - 25%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-X	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 - 25%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-X	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	< 2.5%

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· ***Additional information*** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· ***General information*** Instantly remove any clothing contaminated by the product.
· ***After inhalation***
Provide fresh air. Keep victims quiet and warm.
In case of persistent symptoms consult doctor.
· ***After skin contact***
Wash with water and soap.
If skin irritation continues, consult a doctor.
· ***After eye contact***
Rinse opened eye for several minutes under running water.
In case of permanent aches and pains please go and see the doctor.
· ***After swallowing***
Rinse out mouth and then drink plenty of water.
Therapy of pertinent symptoms. If symptoms persit seek medical attendance.
· ***4.2 Most important symptoms and effects, both acute and delayed***
No further relevant information available.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents***
CO2, extinguishing powder or water jet. Fight larger fire with 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***
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
· ***5.3 Advice for firefighters***
· ***Protective equipment:***
Do not inhale explosion gases or combustion gases.
Use a breathing apparatus that is independent of circulating air when being in closed rooms.
· ***Additional information***
Cool closed containers near by fire source with water.
Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Ensure adequate ventilation
Keep away from ignition sources
Do not inhale vapours.
Observe information for safe handling (item 7) and personal protective equipment (item 8).
Wear protective equipment. Keep unprotected persons away.
· ***6.2 Environmental precautions:***
Damp down gases/fumes/haze with water spray jet.
Damaged containers immediately isolate and seal.
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.

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· ***6.3 Methods and material for containment and cleaning up:***
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Clean preferably with cleaning agent; preferably don't use solvents.
· ***6.4 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 information on disposal.

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Use only in well ventilated areas.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Avoid contact with eyes and skin.
Keep away from heat and direct sunlight.
Keep empty containers away from heat and ignition sources.
· ***Information about protection against explosions and fires:***
Keep ignition sources away - Do not smoke.
Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use.
Do not spray on flames or red-hot objects.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and containers:***
Protect from frost and direct sun exposure.
Observe official regulations on storing packagings with pressurised containers.
· ***Information about storage in one common storage facility:*** Not required.
· ***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.

*
SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
WEL: workplace exposure limit
OEL: Occupational Exposure Limit

75-28-5 isobutane	
OEL (Ireland)	Short-term value: 1000 ppm
74-98-6 propane	
OEL (Ireland)	Asphx
106-97-8 butane, pure	
WEL (Great Britain)	Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
OEL (Ireland)	Short-term value: 1000 ppm
67-63-0 propan-2-ol	
WEL (Great Britain)	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
OEL (Ireland)	Short-term value: 400 ppm Long-term value: 200 ppm Sk

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· ***DNELs***

64742-49-0 Naphtha (petroleum), hydrotreated light		
Dermal	DNEL (worker, long-term, systemic)	25.9 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	3.25 mg/m³ (human)

· ***Additional information:*** The lists that were valid during the compilation were used as basis.

· ***8.2 Exposure controls***

· ***Individual protection measures, such as personal protective equipment***

· ***General protective and hygienic measures***
Do not eat, drink or smoke while working.
Wash hands during breaks and at the end of the work.
Do not inhale gases / fumes / aerosols.

· ***Breathing equipment:***
Not necessary if room is well-ventilated.
Use breathing protection in case of insufficient ventilation.
Filter AX.

· ***Hand protection***
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.
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.
In case of a layer thickness of 0.4 mm the penetration time is longer than 480 minutes.

· ***For the permanent contact gloves made of the following materials are suitable:***
Butyl rubber, BR

· ***For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:***
Nitrile rubber, NBR

· ***Eye/face protection***

Tightly sealed safety glasses.

· ***Body protection:*** Not required.

*

SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***

· ***General Information***

· ***Colour:***	Colourless
· ***Odour:***	Characteristic
· ***Odour threshold:***	Not determined.
· ***Melting point/freezing point:***	Not determined
· ***Boiling point or initial boiling point and boiling range***	Not applicable, as aerosol

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· **Flammability**	Not applicable.
· **Lower and upper explosion limit**	
· **Lower:**	1.5 Vol %
· **Upper:**	10.9 Vol %
· **Flash point:**	Not applicable, as aerosol
· **Self-inflammability:**	Product is not selfigniting.
· **Decomposition temperature:**	Not determined.
· **SADT**	
· **pH**	Not determined.
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.
· **dynamic:**	Not determined.
· **Solubility**	
· **Water:**	Not miscible or difficult to mix
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure at 20 °C:**	4200 hPa
· **Density and/or relative density**	
· **Density**	Not determined

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Aerosol
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	260 °C
· **Explosive properties:**	Not determined.
· **Solvent content:**	
· **Organic solvents:**	88.7 %
· **VOC EU**	1,000.0 g/l
· **VOC EU**	100.00 %
· **Change in condition**	
· **Evaporation rate**	Not determined.

· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	

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

· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void

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· ***Desensitised explosives***	Void

SECTION 10: Stability and reactivity

· ***10.1 Reactivity*** No further relevant information available.
· ***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 form explosive mixtures in air if heated above flash point and/or when sprayed or atomised
· ***10.4 Conditions to avoid*** No further relevant information available.
· ***10.5 Incompatible materials:*** Strong oxidizing agents
· ***10.6 Hazardous decomposition products:***
None in case of intended use and storage in compliance with instructions.

*
SECTION 11: Toxicological information

· ***11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008***
· ***Acute toxicity*** Based on available data, the classification criteria are not met.

· ***LD/LC50 values that are relevant for classification:***		
64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	> 6,000 mg/kg (rat)
Dermal	LD50	> 3,000 mg/kg (rabbit)
Inhalative	LC50	> 32 mg/l/4h (rat)

· ***Skin corrosion/irritation***
More frequent and continuous contact with the skin may result in irritation of the skin.
· ***Serious eye damage/irritation*** Splashes can cause temporary eye irritation.
· ***Respiratory or skin sensitisation*** Based on available data, the classification criteria are not met.
· ***Germ cell mutagenicity*** Based on available data, the classification criteria are not met.
· ***Carcinogenicity*** Based on available data, the classification criteria are not met.
· ***Reproductive toxicity*** Based on available data, the classification criteria are not met.
· ***STOT-single exposure***
May cause drowsiness or dizziness.
· ***STOT-repeated exposure*** Based on available data, the classification criteria are not met.
· ***Aspiration hazard***
May be fatal if swallowed and enters airways.
· ***Additional toxicological information:***

· ***Repeated dose toxicity***		
64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	NOAEL (90d)	100 mg/kg bw/day (rat) (OECD 408)

· ***11.2 Information on other hazards***

· ***Endocrine disrupting properties***
None of the ingredients is listed.

*
SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
64742-49-0 Naphtha (petroleum), hydrotreated light	
EC50 (static)	4.5 mg/l/48h (Daphnia magna) (OECD 202)

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EC50 (static)	3.7 mg/l/96h (Pseudokirchneriella subcapitata) (OECD 201)
LC50	8.2 mg/l/96h (Pimephales promelas) (EPA 66013-75-009)

· ***12.2 Persistence and degradability*** No further relevant information available.
· ***Other information:*** There are no data available about the preparation.
· ***Behaviour in environmental systems:***
· ***Components:***
A product that has flown out can lead to the formation of a film on the water surface which reduces the oxygen exchange and results in the organisms dying-off.
· ***12.3 Bioaccumulative potential*** No further relevant information available.
· ***12.4 Mobility in soil*** No further relevant information available.
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable.
· ***vPvB:*** Not applicable.
· ***12.6 Endocrine disrupting properties***
For information on endocrine disrupting properties see section 11.
· ***12.7 Other adverse effects***
· ***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 bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.

*
SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***

· ***Uncleaned packagings:***
· ***Recommendation:***
Non contaminated packagings can be used for recycling.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

*
SECTION 14: Transport information

· ***14.1 UN number or ID number***
· ***ADR/ADN, IMDG, IATA*** UN1950

· ***14.2 UN proper shipping name***
· ***ADR/ADN*** 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
· ***IMDG*** AEROSOLS (hexane (containing < 5 % n-hexane (203-777-6))), MARINE POLLUTANT
· ***IATA*** AEROSOLS, flammable

· ***14.3 Transport hazard class(es)***

· ***ADR/ADN***

· ***Class*** 2 5F Gases.

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· ***Label*** 2.1

· ***IMDG***

· ***Class*** 2.1
· ***Label*** 2.1

· ***IATA***

· ***Class*** 2.1
· ***Label*** 2.1

· ***14.4 Packing group***
· ***ADR/ADN, IMDG, IATA*** Void

· ***14.5 Environmental hazards:***
· ***Marine pollutant:*** No
Symbol (fish and tree)
· ***Special marking (ADR/ADN):*** Symbol (fish and tree)

· ***14.6 Special precautions for user*** Warning: Gases.
· ***Kemler Number:*** -
· ***EMS Number:*** F-D,S-U
· ***Stowage Code*** SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· ***Segregation Code*** SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.

· ***14.7 Maritime transport in bulk according to IMO instruments*** Not applicable.

· ***Transport/Additional information:***

· ***ADR/ADN***
· ***Limited quantities (LQ)*** 1L
· ***Excepted quantities (EQ)*** Code: E0
Not permitted as Excepted Quantity
· ***Transport category*** 2
· ***Tunnel restriction code*** D

· ***IMDG***
· ***Limited quantities (LQ)*** 1L

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· ***Excepted quantities (EQ)***	Code: E0 Not permitted as Excepted Quantity
· ***UN "Model Regulation":***	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

*
SECTION 15: Regulatory information

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

· ***Chemical safety assessment***

· ***Seveso category***
P3a FLAMMABLE AEROSOLS
E2 Hazardous to the Aquatic Environment

· ***Qualifying quantity (tonnes) for the application of lower-tier requirements*** 150 t

· ***Qualifying quantity (tonnes) for the application of upper-tier requirements*** 500 t

· ***National regulations***

· ***Water hazard class:*** Water hazard class 2 (Self-assessment): hazardous for water.

· ***Substances of very high concern (SVHC) according to REACH, Article 57***
None of the ingredients is contained.

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

SECTION 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.
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.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

· ***Department issuing data specification sheet:***

DEKRA This Material Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international 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 Harmonised 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)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern

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vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **** Data compared to the previous version altered.***