

Printing date 16.06.2021 Version number 4 Revision: 16.06.2021

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

· 1.1 Product identifier

· Trade name: SILIKONSPRAY

· Article number: 709165

· 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: Silicone spray.

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

SHERA Werkstoff-Technologie GmbH & Co. KG

Espohlstraße 53 D-49448 Lemförde GERMANY

sdb@shera.de + 49 (0) 54 43 - 99 33 - 0

· Further information obtainable from: Department of product security.

· 1.4 Emergency telephone number:

Giftinformationszentrum-Nord: +49 (0) 551-19240

(Information in german or english)

### **SECTION 2: Hazards identification**

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

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

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

- · 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 GHS07 GHS09

· Signal word: Danger

· Hazard-determining components of labelling:

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Hydrocarbons, C7, n-alkanes, isoalkanes, cycles n-hexanes

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:

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.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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P332+P313 If skin irritation occurs: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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 substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Flam. Gas 1A, H220; Acute Tox. 3, H331; Press. Gas (Comp.), H280	10-25%
	Hydrocarbons, C6, isoalkanes, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
	Hydrocarbons, C7, n-alkanes, isoalkanes, cycles n-hexanes Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: $C \ge 5$ %	<0.5%

• 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
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

In case of skin irritation, seek medical treatment.

Immediately wash with water and soap and rinse thoroughly.

- · After eye contact: In case of troubles or persistent symptoms, consult an ophthalmologist.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- · Hazards Danger of pneumonia.
- 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: CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet.

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- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters No data available.
- · Protective equipment: No special measures required.

## **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers / surface or ground water.

· 6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

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 disposal information.

### **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- · Storage class: No information available.
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:		
74-98-6 propane		
AGW (Germany)	Long-term value: 1800 mg/m³, 1000 ppm 4(II);DFG	
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(Contd. of page 3) 106-97-8 butane, pure WEL (Great Britain) Short-term value: 1810 mg/m3, 750 ppm Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm Carc (if more than 0.1% of buta-1.3-diene) Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm AGW (Germany) 4(II);DFG 110-54-3 n-hexane WEL (Great Britain) Long-term value: 72 mg/m³, 20 ppm AGW (Germany) Long-term value: 180 mg/m<sup>3</sup>, 50 ppm 8(II); DFG, EU, Y IOELV (EU) Long-term value: 72 mg/m<sup>3</sup>, 20 ppm · Ingredients with biological limit values: 110-54-3 n-hexane BGW (Germany) 5 mg/l Specimen: Urine Sampling time: After exposure ends or after the shift ends

Parameters: 2.5-hexanedione plus 4.5-dihydroxy-2-hexanone (after hydrolysis)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- $\cdot$  Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. 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.

· Eye/face protection



Tightly sealed goggles



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## **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
 Colour:
 Odour:
 Melting point/freezing point:

Aerosol
Colourless

 characteristic
 Undetermined.

Boiling point or initial boiling point and boiling

ange -44 °C

· Flammability Not applicable.

Lower and upper explosion limit

Lower: 1.5 Vol %
 Upper: 10.9 Vol %
 Flash point: -97 °C

• Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature:
 pH
 Not determined.
 Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

• water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure at 20 °C:
 5,300 hPa

Density and/or relative density

Density: Not determined.
 Relative density Not determined.
 Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Aerosol

 $\cdot$  Important information on protection of health and

environment, and on safety.

Ignition temperature: 365 °C

• Explosive properties: Product is not explosive. However, formation of

explosive air / vapour mixtures are possible.

Solvent content:

 $\begin{array}{lll} \cdot \mbox{ Organic solvents:} & 64.4 \% \\ \cdot \mbox{ VOC (EC):} & 70.00 \% \\ \cdot \mbox{ Solids content:} & 0.0 \% \end{array}$ 

· Change in condition:

• Evaporation rate Not applicable.

· Information with regard to physical hazard classes

• Explosives Void. • Flammable gases Void.

· Aerosols Extremely flammable aerosol. Pressurised container:

May burst if heated.

Oxidising gases
Gases under pressure
Flammable liquids
Flammable solids
Self-reactive substances and mixtures
Pyrophoric liquids
Pyrophoric solids
Void.

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· 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.
Desensitised explosives	Void.

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No data available.
- 10.2 Chemical stability No decomposition if used according to specifications.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials No further relevant information available.
- · 10.6 Hazardous decomposition products No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity: No data available.

LD/LC50	values rele	evant for classification:
106-97-8 I	butane, pu	ıre
Inhalative	LC50/4 h	658 mg/l (Rat)
110-54-3 ו	n-hexane	
Oral	LD50	25,000 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	171.6 mg/l (Rat)

- Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation No data available.
- · STOT-single exposure May cause drowsiness or dizziness.
- · Aspiration hazard May be fatal if swallowed and enters airways.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

#### 110-54-3 n-hexane

EC50/48 h 2.41 mg/l (Daphnia (Daphnia magna))

- 12.2 Persistence and degradability No further relevant information available.
- 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.

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12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Ecotoxical effects: No data available.
- · Remark: Toxic for fish.
- · Additional ecological information: No data available.
- · General notes:

Also toxic to fish and plankton in water.

Toxic to aquatic organisms.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods
- · Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Waste disposal key:

The waste disposal code as prescribed in the EuropeanWaste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name	
ADR	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOU
· IMDG	AEROSOLS (Hydrocarbons, C6, isoalkanes, <5%
	hexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyc
	n-hexanes), MARINE POLLUTANT
·IATA	AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
· ADR	



· Class 2 5F Gases. · Label 2.1

·IMDG



· Class 2.1

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Label	2.1
IATA	
Class	2.1
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	Void.
14.5 Environmental hazards:	Product contains environmentally hazardous substance
17.0 Environmental nazalus.	Hydrocarbons, C6, isoalkanes, <5% n-hexane
Marine pollutant:	No.
r	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code	
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
-	SW22 For AEROSOLS with a maximum capacity of
	litre: Category A. For AEROSOLS with a capacity about
	1 litre: Category B. For WASTE AEROSOLS: Categ
	C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of
	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
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class
14.7 Maritime transport in bulk according t	to IMO
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ):	1L
Excepted quantities (EQ):	Code: E0
Excepted qualitates (Ed).	Not permitted as Excepted Quantity
Transport category:	2
Tunnel restriction code:	D
Remarks:	LQ: Maximum 30 kg per package (carton), apply "
	1950" (rhombus) and "AEROSOLES" onto the carton.
IMDG	
Limited quantities (LQ):	1L
Excepted quantities (EQ):	Code: E0
	Not permitted as Excepted Quantity
	Not permitted as excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTAL



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## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 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:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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

#### **SECTION 16: Other information**

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

#### · 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.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Department of product security.
- 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)

ICAO: International Civil Aviation Organisation

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)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 3: Acute toxicity - Category 3

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Repr. 2: Reproductive toxicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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## Safety data sheet according to 1907/2006/EC, Article 31



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STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- · Sources All details based on information provided by upstream suppliers.
- \* Data compared to the previous version altered.

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