

MATERIAL SAFETY DATA SHEET

Version: 4.1
Print date: 25.08.2020
Revised: 25.08.2020

 **Silikonspray**


HELLER
Dichtungs- und Klebetechnik

1. Identification of the substance or mixture and of the company

1.1. Product identifier:

Trade name:  **Silikonspray**
Art.No.: 0311

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

Use of the substance
/ of the mixture: release agent, lubricant

1.3. Details of the supplier providing the safety data sheet:

Heinz Heller GmbH
Alte Waldstraße 15
D-57482 Wenden – Hünsborn
Telephone: +49 (0) 2762 60830
Fax: +49 (0) 2762 608320
info@heinzheller.de
www.heinzheller.de

Contact Person: Herr Friedrich Meister

1.4. Emergency telephone:

24 hours: +49 (0) 551 192 40 (Giftinformationszentrum Göttingen)

2. Possible hazards

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC)

1272/2008

Aerosol 1; H222, H229

Skin Irrit. 2; H315

STOT SE 3; H336

Aquatic Chronic 3; H412

2.2. Identification elements:

Identification elements (CLP)



Signal word:

Danger Hazard

statements:

H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated. H315
Causes skin irritation.
H336 May cause drowsiness and daze.
H412 Harmful to aquatic life with long lasting effects.

Safety instructions:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
Do not smoke.
P211 Do not spray on open flame or other source of ignition. P251
Do not pierce or burn, even after use.
P302 + P352 IN CASE OF SKIN CONTACT: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Move the person to fresh air and ensure unobstructed breathing.
P410 + P412 Protect from sunlight and do not expose to temperatures exceeding 50 ° C.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

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Contains: hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

Additional text:

/

2.3. Miscellaneous hazards:

Pressurized container: Heating leads to increased pressure: risk of bursting and explosion. Vapours may form explosive mixtures together with air.

3. Composition / information on ingredients

Substances:

Mixtures:

Designation:	Content. (% m / m):	CAS: EC: Index:	Classification (1272/2008 / EC):
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic	10 – 25	/ 927-510-4 /	Flam. Liq. 2; H225, Asp. Tox. 1; H304, Skin Irrit. 2; H315, STOT SE 3; H336, Aquatic Chronic 2; H411
Butan	50 – 100	106-97-8 203-448-7 601-004-00-0	Flam. Gas. 1; H220, Press. Gas; H280

4. First aid measures

4.1. Description of first aid measures:

After inhalation: Remove the affected person to fresh air, loosen tight clothing and keep calm. If they have difficulty breathing, call a doctor immediately.

After skin contact: Change contaminated clothing. In case of contact with skin, rinse immediately with plenty of soap and water. In case of skin irritation, consult a doctor.

After eye contact: Immediately flush - with open eyelid - with running water for 10 to 15 minutes. If eye irritation occurs, consult an ophthalmologist.

After swallowing: Not applicable

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

No data available.

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

Symptomatic treatment.

5. Fire-fighting measures

5.1. Extinguishing agents:

Suitable extinguishing agents: Dry chemical powder, foam, carbon dioxide (CO₂), water mist.

Unsuitable extinguishing agents: Water jet.

5.2. Special hazards arising from the substance or mixture:

Special hazards: Extremely flammable. Vapours may form explosive mixtures together with air. In case of fire:
in case of fire: Dense, black smoke that can cause health problems. Furthermore, the following can arise:

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Carbon monoxide and carbon dioxide.

5.3. Advice for firefighting:

Special protective equipment for firefighting: In case of fire, use respirator mask that is independent from outside air. Use personal protective equipment.

Further information: Common measures in case of fire with chemicals. Extinguishing measures to suit the environment. Do not inhale explosion or combustion gases. Use water spray to cool closed containers. Collect contaminated extinguishing water separately. Must not enter the sewage system. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations. Watch out for flashback. Due to the high vapour pressure, there is a danger of bursting of the vessels when the temperature rises.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures:

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with eyes. Ensure sufficient ventilation, especially in closed rooms. Immediately evacuate personnel to a safe place. Avoid breathing in vapours or mist. Accumulating vapours can form explosive concentrations. Vapours can accumulate in low-lying areas.

6.2. Environmental protection measures:

Do not allow to enter surface waters or sewers. Prevent further leakage or spillage if it is safe to do so. In the event of contamination of waters or sewers, inform the competent authorities.

6.3. Methods and material for containment and cleaning:

Contain and pick up leaking material with non-combustible, absorbent material (such as sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Thoroughly clean contaminated surfaces.

6.4. Reference to other sections:

Cf. Section: 7, 8, 11, 12 and 13

7. Handling and storage

7.1. Protective measures for safe handling:

Advice on safe handling: Stock quantity at the workplace must be limited. Use only in well-ventilated areas. Do not breathe in vapours or spray mist. Avoid contact with eyes and skin. Do not spray against flame or glowing object. Avoid the formation of flammable or explosive solvent vapours in the air and exceeding the AGW limits. Take precautionary measures against electrostatic charges. Personal protective equipment, see section 8.

Information about fire and explosion protection: Usual measures of preventive fire protection. Vapours may form explosive mixtures together with air. Keep away from heat and ignition sources. Do not smoke. Use a spark-proof tool. Electrical equipment must be explosion-proof in accordance with the standards.

Dust explosion class: Not applicable.

7.2. Conditions for safe storage, including consideration of any incompatibilities:

Requirements for storerooms and containers: Store in the original container. CAUTION: Aerosol is under pressure. Keep away from direct sunlight and temperatures above 50 ° C. Do not force open or throw into a fire, even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry, cool and well-ventilated place. Observe storage regulations for aerosols!

Common storage instructions: Keep away from food, drink and animal feed. Do not store together with oxidising and self-igniting substances.

Storage class (LGK): 2B, compressed gas packages (aerosol packages)

Other Information: No decomposition if stored and used as intended.

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7.3. Specific end uses:

No data available

8. Limitation and monitoring of Exposure / Personal Protective Equipment

8.1. Parameters to be monitored:

8.1.1. Occupational exposure limits in the workplace

Designation	CAS-No.	Occupational exposure limit value		Peak limit	
		ml/m ³ (ppm)	mg/m ³	Factor of exceeding	Basis
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	/	/	1000	2 (II)	AGS
Butane	106-97-8	1.000	2.400	4 (II)	DFG

8.1.2. DNEL and PNEC values

Substance	Type	Type of exposure	Exposure time	Value
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (work)	Inhalation	Long-term - systemic effects	2085 mg/m ³
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (work)	Dermal	Long-term - systemic effects	300 mg/kg bw/day
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (consumer)	Inhalation	Long-term - systemic effects	447 mg/m ³
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (consumer)	Dermal	Long-term - systemic effects	149 mg/kg bw/day
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (consumer)	Oral	Long-term - systemic effects	149 mg/kg bw/day

8.2. Limitation and monitoring of Exposure:

Technical protection measures:

Provide sufficient air exchange and / or extraction in work rooms.

Personal protective equipment:

Respiratory protection When exceeding the occupational exposure limits (OEL), wear a respiratory protective device. Filter A, colour code brown, according to EN 371. Provide self-contained breathing apparatus for emergency use.

Hand protection Solvent-resistant protective gloves according to EN 374. Glove material: Nitrile rubber. Breakthrough time (maximum wearing time): > 480 min and thickness 0.5 mm. The instructions of the manufacturer of the protective gloves regarding permeability and breakthrough times must be observed.

Eye protection Tightly fitting safety goggles according to EN 166.

Skin and body protection Flame retardant antistatic protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Hygiene measures The usual precautionary measures are to be adhered to when handling chemicals. General occupational hygiene measures. Do not inhale aerosol. Avoid contact with skin, eyes and clothes
. Do not eat, drink or smoke at work. Wash hands before breaks and after work. Observe skin protection plan. Wash soiled clothing before reuse.

Limitation and monitoring of environmental exposure:

General information: Do not allow to enter surface waters or sewers. Prevent further leakage or spillage if it is safe to do so. In the event of contamination of waters or sewers, inform the competent authorities.

9. Physical and chemical properties

9.1. Information on the basic physical and chemical properties:

Value Unit at Method comment

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Form	Aerosol		
Colour	Colourless, clear		
Smell	Characteristic		
Flash point	Approx. -60	°C	Butane
Lower explosion limit	1.8	Vol. %	Butane
Upper explosion limit	8.4	Vol. %	Butane
Density	Approx. 0.791	g/cm ³	Active ingredient
Water solubility	Slightly soluble		

9.2. Other Information:

No data available.

10. Stability and Reactivity

10.1. Reactivity:

No data available.

10.2. Chemical stability:

The product is chemically stable.

10.3. Possibility of dangerous reactions:

No decomposition if stored and used as intended. Vapours may form explosive mixtures together with air. Due to the high vapour pressure, there is a danger of bursting of the vessels when the temperature rises.

10.4. Conditions to avoid:

Extremely flammable. Keep away from heat sources, sparks and open flames. Vapours form explosive mixtures with air that are heavier than air. Keep away from sunlight and temperatures above 50 ° C.

10.5. Incompatible materials:

Strong oxidising agents

10.6. Hazardous decomposition products:

Hazardous decomposition products: In case of fire, the following may arise: Smoke, carbon monoxide and carbon dioxide.

Thermal decomposition: Heating leads to increased pressure and danger of bursting.

11. Toxicological information

Acute toxicity:

Acute oral toxicity

Hydrocarbons, C7, n-alkanes, LD₅₀ > 8 ml/kg (Rats)
iso-alkanes, cyclic

Acute inhalation toxicity:

Hydrocarbons, C7, n-alkanes, LC₅₀ > 23,3 mg/l (Rats, 4 h)
iso-alkanes, cyclic

Acute dermal toxicity:

Hydrocarbons, C7, n-alkanes, LD₅₀ > 4 ml/kg (Rats)
iso-alkanes, cyclic

Corrosion / irritation to the skin Irritates the skin.

Serious eye damage / irritation May cause irritation.

Respiratory or skin sensitization No data available.

Mutagenicity No data available.

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Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Teratogenicity	No data available.
Further information	Symptoms: Headache, dizziness, tiredness, muscle weakness, anesthetic effects and, in exceptional cases, unconsciousness.

12. Environmental information

12.1. Toxicity:

Toxicity to fish:

Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic LL/EL/IL50 >1 - <= 10 mg/l

Toxicity to daphnia:

Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic LL/EL/IL50 >1 - <= 10 mg/l

Toxicity to algae:

Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic LL/EL/IL50 >10 - <= 100 mg/l

Toxicity to bacteria:

Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic LL/EL/IL50 >10 - <= 100 mg/l

12.2. Persistence and degradability:

No data available.

12.3. Bioaccumulative potential:

No data available.

12.4. Mobility in the soil:

No data available.

12.5. Results of PBT and vPvB assessment:

No data available.

12.6. Other harmful effects:

The penetration of the product into the sewer system, water courses or the soil should be prevented.

13. Notes on disposal

13.1. Product:

Waste code number: 160504* = Dangerous substance-containing gases in pressure vessels.

* = The disposal proof must be provided.

Recommendation: Do not force open or burn, even after use.
Disposal according to official regulations.

13.2. Packaging:

Waste code number: 150110 = Packaging containing residues of hazardous substances or contaminated by hazardous substances.

Recommendation: Empty carefully and as completely as possible.
Disposal according to official regulations.

14. Transport information

ADR

UN-Number: 1950

Description of goods: COMPRESSED GAS
PACKAGES

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Class: 2
Packaging group: --
Classification code: 5F
Labels: 2.1
Limited amount 1 L
Tunnel restriction code: (D)
Environmentally hazardous: No

RID

UN-Number: 1950
Description of goods: COMPRESSED GAS PACKAGES
Class: 2
Packaging group: --
Classification code: 5F
Hazard identification number: 23

Labels: 2.1
Limited amount: LQ2
Environmentally hazardous: No

Special precautions for user:

Cf. Section: 6, 7 and 8

15. Legal provisions

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

Directive (2012/18 / EC):		quantity 1	quantity 2
	P3a FLAMMABLE AEROSOLS	150 t (Net)	500 t (Net)

VOC (Directive 1999/13 / EC): VOC content: 568 g/l = 91 %

Water hazard class: WGK 1

15.2. Chemical safety report:

No data available.

16. Other Information

Full text of hazard statements in sections 2 and 3 .:

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; can explode if heated.
H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness and daze.
H411 Harmful to aquatic life with long lasting effects.

Changes:

- Section 2
- Section 3
- Section 8.2
- Section 15.1