

**Safety data sheet pursuant to ordinance
(EC) No. 453/2010
(EC) No. 1907/2006 (REACH)**

Print date : 10.07.2015

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Revised:03.08.2015

Cimco-Werkzeugfabrik
Carl Jul. Müller GmbH & Co. KG

1. DESIGNATION OF THE MATERIAL OR MIXTURE AND COMPANY NAME

1.1 Product identifier

Product name Silicon spray Art. No. **151004**
Trade name Silicon spray Art. No. **151004**
CAS No.
EC No.

1.2 Relevant identified use of material or mixture and uses that are not advisable

Recommended
limitations of the
application

Use of the
material/mixture Technical aerosols

1.3 Details on the supplier who is making the safety data sheet available

Company Cimco Werkzeugfabrik Carl Jul. Müller GmbH & Co. KG
Hohenhagener Straße 1 - 5
D-42855 Remscheid, Germany
+49 (0) 21913718-01 Fax: +49 (0) 21913718-86

1.4 Emergency number **Emergency CONTACT (24-Hour-Number)**
GBK GmbH +49 (0)6132-84463

2. POSSIBLE HAZARDS

2.1 Classification of the material

- **Classification in accordance with the directive (EC) No. 1272/2008 [CLP/GHS]**
Aerosol 1 H222, H229,
Skin Irrit. 2 H315
STOT SE 3 H336
Aquatic Chronic 2 H411

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2.2 Label elements

- Labelling according to directive (EC) No. 1272/2008 [CLP/GHS]



GHS02



GHS07



GHS09

Signal word:

Hazard

Hazard warnings:

H222 Extremely inflammable aerosol.
H229 Pressurised container: could burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness and dizziness.
H411 Toxic for water organisms, with long-term effects.

Safety information:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition. Do not smoke.
P211 Do not spray against open flames or other sources of ignition.
P251 Do not puncture or incinerate, even after use.
P261 Avoid breathing in dust/smoke/gas/mist/vapour/aerosol.
P271 Only use outdoors or in well ventilated rooms.
P273 Avoid releasing into the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IN THE EVENT OF SKIN CONTACT: Wash with plenty of water/soap.
P304 + P340 IN THE EVENT OF INHALATION: Move the person into fresh air and ensure they can breathe unrestrictedly.
P312 In the event of feeling unwell, call the POISON CONTROL CENTRE/doctor.
P332 + P313 In the event of skin irritation: Consult a doctor/seek medical attention.
P362 Remove contaminated clothing.
P403 + P235 Store in a cool, well ventilated place.
P405 Keep it locked away.

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P410 + P412 Protect against direct sunlight and do not expose to temperatures above 50°C.

P501 Dispose of content/container as problem waste.

Hazard-determining components for labelling

Naphtha (mineral oil), treated with hydrogen, free of aromatic compounds
(Nota P: < 0.1% benzene)

2.3 Other dangers

- The product has a narcotic effect.

Results of the PBT and vPvB assessment

- **PBT:** The materials in the mixture do not meet the PBT/vPvB criteria according to REACH, Appendix XIII.
- **vPvB:** not applicable

3. COMPOSITION / INFORMATION ON COMPONENTS

Constituents	EC No.	CAS No.	Concentrate [% by weight]
Ethanol	200-578-6	64-17-5	10-20 Flam. Liq. 2, H225
Propane	200-827-9	74-98-6	20-30 Flam. gas 1, H220 Compressed gas
Butane	203-448-7	106-97-8	20-30 Flam. gas 1, H220 Compressed gas
n-hexane	203-777-6	110-54-3	< 2 Flam. liq. 2, H225 Repr. 2, H316f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
Cyclohexane	203-806-2	110-82-7	< 2 Flam. Liq. 2, H225 Asp. Tox. 1, H30 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Naphtha (mineral oil), treated with hydrogen, free of aromatic compounds (Nota P: < 0.1% benzene)	265-151-9	64742-49-0	20-40 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
Dimethylpolysiloxane		36148-62-9	5-20

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Remove dirty, saturated clothing immediately.

After inhaling

Move the affected person into the fresh air and place in a resting position.
In the event of complaints, seek medical assistance.

After skin contact

In the event of skin contact, wash off with soap and water.
In the event of long-term skin irritation, consult doctor.

After swallowing

Do not induce vomiting
Seek medical assistance.

After eye contact

In the event of contact with the eyes, rinse thoroughly with lots of water. If complaints persist, consult doctor.

4.2 Important symptoms and effects which are acute or occur with a delay

Information for the doctor / Possible symptoms:

Unconsciousness, state of intoxication, headache, confusion

4.3 Indication of any immediate medical attention and special treatment needed

No information is available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing agents

Suitable extinguishing agents

Foam, dry extinguishing agent, carbon dioxide, jet of water

Unsuitable extinguishing agents

Direct water jet

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5.2 Particular risks associated with the material or mixture

Conflagration gases from organic materials are generally to be regarded as toxic when inhaled.
In the event of a fire, it is possible that hazardous gases may be formed.
Carbon dioxide (CO₂)

5.3 Information on fire fighting

Special protective equipment for firefighting:

Use independent self-contained breathing apparatus.
In the presence of combustion or carbonization gases, any firefighting, rescue and clearing up activities should be undertaken only with heavy-duty respiratory protection.

Further information:

Vapours are heavier than air and spread on the ground..
Cool endangered containers with water spray jet.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. MEASURES IN THE EVENT OF ACCIDENTAL RELEASE

6.1 Person-related safety precautions, protective equipment and procedures to be followed in emergencies

Ensure sufficient ventilation.
Use personal protective clothing.
Keep ignition sources away.

6.2 Environmental protection measures

If surface water or sewage system are contaminated, inform the responsible authorities.
Do not allow to enter sewage system / surface water / ground water.

6.3 Methods and material for containment and cleaning

Absorb with suitable liquid-binding materials.
Dispose of the absorbed material in accordance with the regulations.

6.4 References to other sections

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

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7. HANDLING AND STORAGE

7.1 Safety measures for safe handling

Information on safe handling	Extraction in enclosed spaces at floor height. Ensure good room ventilation, extraction at the workplace where necessary.
General protection measures	Avoid contact with the eyes and skin. Do not inhale aerosol.
Hygiene measures	Do not eat, drink or smoke while working. Wash hands before breaks and after finishing work.
Information on fire and explosion protection	Keep away from ignition sources – Do not smoke. Do not spray onto flames or incandescent materials. Together with air, vapours can form an explosive mixture. Take measures to protect against electrostatic charges. Avoid exposure to heat.

7.2 Conditions for safe storage taking incompatibilities into consideration

Storage requirements	Keep sealed in original packaging. The local authority regulations for storage of aerosol dispensers are to be observed.
Information on storage with other products	Do not store with oxidizing agents.
Further information on storage conditions	Protect against heat and direct sunlight. The storage temperature must not exceed 50 °C. Keep container in a cool, well-ventilated place.
Storage class	2B

7.3 Specific end use

See section 1.2

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8. LIMITATION AND MONITORING OF EXPOSURE / PERSONAL PROTECTIVE EQUIPMENT

8.1 Limit values

CAS No.	Designation	Type	[mg/m ³]	[ppm]	Peak limit	Note
106-97-8	Butane	8 hours	2400	1000	4(II)	DFG
110-82-7	Cyclohexane	8 hours	700	200	4(II)	DFG,EU
64-17-5	Ethanol	8 hours	960	500	2(II)	DFG,Y
110-54-3	n-hexane	8 hours	180	50	8(II)	DFG, EU, Y
74-98-6	Propane	8 hours	1800	1000	4(II)	DFG

Occupational exposure limit values

CAS No.	Designation	Type	[mg/m ³]	[ppm]	Peak limit	Note
110-54-3	n-Hexane	8 hours	72	20		
110-82-7	Cyclohexane	8 hours	700	200		

Biological limit values

CAS No.	Designation	Parameters	BLV	Material examined	Time sample taken
110-54-3	Hexane (n-Hexane)	2.5-hexandiol plus 4.5-dihydroxy-2-hexanone (after hydrolysis)	5 mg/l	U	b
110-82-7	Cyclohexane	1.2-cyclohexandiol (after hydrolysis)	150 mg/g Creatinine	U	c,b

Additional information

National and local legal provisions must be adhered to.

8.2 Limiting and monitoring exposure

Personal protective equipment

General protective and hygiene measures

The usual regulations for handling chemicals needs to be adhered to.

Do not breathe in dust/smoke/mist. Keep away from food, drink and animal feed. Do not smoke, eat or drink while working. Avoid contact with the eyes and skin. Wash hands before a break and after finishing work.

Respiratory protection

Respiratory protection in the event of insufficient extraction or prolonged exposure.

Briefly filtration device, Filter A

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Hand protection	It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer. The type of chemical protection gloves is to be selected according to the concentration and quantity of hazardous materials at the specific workplace. Information on glove material [kind/type, thickness, penetration time/wearing period, wetting resistance]: butyl rubber; 0, 7 mm; 480 min.
Eye protection	Tight fitting safety glasses
Personal protection	Protective workwear
Limiting and monitoring environmental exposure	Ensure good room ventilation, extraction at the workplace where necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties

Form	aerosol
Colour	colourless
Odour	characteristic
Steam pressure	3.5 bar 20 °C
Relative density	0.67 g/cm ³ 20 °C
Melting point / Freezing point	- na -
Explosive properties	LEL: 0.6 vol. % UEL: not determined
Self-ignition temperature	- na -
Ignition point	- na -
Flammability	- na -
Oxidizing properties	- na -

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Solubility in / miscibility with - na -
Ignition temperature > 250° C.
Solvent content > 40 %
Solids content - na -

9.2 Other information

No information is available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available

10.2 Chemical stability

No information is available.

10.3 Possible hazardous reactions

No known hazardous reactions.

10.4 Conditions to be avoided

Avoid exposure to heat.
Formation of explosive gas mixtures with air.

10.5 Incompatible materials

Oxidation agents, strong

10.6 Dangerous decomposition processes

No hazardous decomposition products known.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

	Value/Evaluation	Species	Method	Note
Skin irritation	irritant			

Practical experience

Frequent and prolonged contact with the skin can dry out the skin, which can lead to skin complaints and inflammation (dermatitis).

Vapours can cause dizziness, headaches, and tiredness.

As far as we know and according to the information available to us, the product does not represent a health hazard when used as intended.

Irritating to the respiratory system.

Inhalation has a narcotic/intoxicating effect.

General comments

The product is to be handled with the care usual when handling chemicals.

Other hazardous characteristics can not be ruled out.

12. ENVIRONMENTAL INFORMATION

12.1 Toxicity

No information is available.

12.2 Persistence and degradability

No additional information is available.

12.3 Bio accumulation potential

No additional information is available.

12.4 Mobility in the soil

No additional information is available.

12.5 Results of PBT and vPvB assessment

PBT Not applicable

vPvB Not applicable

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12.6. Other harmful effects

Toxic for water organisms, with long-term effects.
 Do not allow uncontrolled release of the product into the environment.
 The product must not enter water systems.

13. INFORMATION ON DISPOSAL

Recommendation	For correct waste disposal, empty the spray completely.
Product	Dispose of in accordance with local authority regulations.
Waste code	16 05 05 Gases in pressurised containers, with the exception of those subject to 16 05 04
Unclean packaging	Dispose of in accordance with local authority regulations. Packaging materials which cannot be cleaned are to be disposed of in the same way as the substance itself.

14. INFORMATION ON TRANSPORT

	ADR/RID	IMDG	IATA-DGR
14.1 UN number	1950	1950	1950
14.2 Proper UN shipping name	COMPRESSED GAS PACKAGING	AEROSOLS (NAPHTHA (PETROLEUM))	Aerosols, inflammable
14.3 Transport hazard class	2.1	2.1	2.1
14.4 Packaging group	-	-	-
14.5 Environmental hazards	no	Yes	no

14.6 Special preventive measures for the user

Caution: Gases

14.7 Bulk transport according to Appendix II of the MARPOL agreement 73/78 and according to the IBC code

Not applicable

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Transport by land ADR/RID

Danger label 2.1

Tunnel restriction code D

Classification code 5F

Transport as "Limited quantity" as per section 3.4 ADR

15. STATUTORY REGULATIONS

15.1 Regulations on safety, health and environmental protection / specific legal regulations for the material or the mixture

VOC guideline

Note

Daten separat anfragen / Request data separately.

National regulations

Information on employment restrictions

The national laws regarding employment restrictions are to be observed.

Water hazard class 2 VwVwS Appendix 4
Water-polluting

Technical instructions (TA) air

Class I Section 5.2.5 Proportion 50 > 90 %

Incident ordinance: Incident ordinance, Appendix I: Part 1: Nos. 8 and 9b.

15.2 Chemical safety assessment

A chemical safety assessment for materials in this mixture have not been carried out.

16. OTHER INFORMATION

Recommended use and restrictions

Existing national and local laws regarding chemicals are to be observed.

Nur für den gewerblichen Gebrauch. / For industrial use only.

Further information

National special provisions need to be implemented by each user on their own responsibility!

The information given is based on our current level of knowledge and serves to describe the product in terms of the safety precautions to be taken. It does not represent an assurance of properties of the product described.

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Please pay attention to additional information! - Our safety data sheets have been prepared according to the valid EU guidelines WITHOUT taking into consideration any special national regulations regarding handling hazardous materials and chemicals.

- H220 Extremely flammable gas.
- H226 Liquid and vapour flammable.
- H304 Can be fatal if swallowed or if it enters the respiratory tract.
- H315 Causes skin irritation.
- H336 May cause drowsiness and dizziness.
- H361f Can probably affect fertility or cause foetal damage (if known, state concrete effect) (state exposure method if conclusively verified that the danger does not occur with any other exposure method).
- H373 Can damage organs (state all affected organs) in the event of lengthy or repeated exposure (state exposure method if conclusively verified that this danger does not occur with any other exposure method).
- H400 Highly toxic for water organisms.
- H411 Toxic for water organisms, with long-term effects.