

## EU safety data sheet

**Trade name:** Silicon

**Product no.:** L22

**Current version :** 6.0.0, issued: 17.04.2023

**Replaced version:** 5.2.0, issued: 04.03.2021

**Region:** GB

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

#### 1.1 Product identifier

Trade name

**Silicon**

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

**Relevant identified uses of the substance or mixture**

Insulation and lubricating oil spray

**Uses advised against**

No data available.

#### 1.3 Details of the supplier of the safety data sheet

**Address**

BBC Cellpack GmbH

Carl-Zeiss-Strasse 20

79761 Waldshut-Tiengen

Telephone no. +49 (0)7741 6007-0

Fax no. +49 (0)7741 64989

e-mail [electrical.products@cellpack.com](mailto:electrical.products@cellpack.com)

**Information provided by / telephone**

+49 (0)7741 6007-0

**Advice on Safety Data Sheet**

[msds@cellpack.com](mailto:msds@cellpack.com)

#### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aerosol 1; H222

Aquatic Chronic 2; H411

Asp. Tox. 1; H304

Skin Irrit. 2; H315

STOT SE 3; H336

**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



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GHS02                      GHS07                      GHS09

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

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

**Hazard statement(s)**

H222                                      Extremely flammable aerosol.  
H229                                      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 statement(s)**

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.  
P261                                      Avoid breathing mist/spray.  
P271                                      Use only outdoors or in a well-ventilated area.  
P280                                      Wear protective gloves.  
P301+P310                              IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P304+P340                              IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P331                                      Do NOT induce vomiting.  
P410+P412                              Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501                                      Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

**Supplemental label elements**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.  
Keep out of the reach of children.

**2.3 Other hazards**

During and after use possible formation of combustible mixture with solvents.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Chemical characterization**

Mixture of the following substances, containing non-hazardous substances:

**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	butane			
	106-97-8 203-448-7 601-004-00-0 -	Flam. Gas 1A; H220 Press. Gas; H280	>= 25.00 - < 50.00	wt%
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane			

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	64742-49-0 931-254-9 - 01-2119484651-34	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	>= 25.00 - < 50.00	wt%
3	<b>pentane</b>			
	109-66-0 203-692-4 601-006-00-1 -	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066 Flam. Liq. 2; H225 STOT SE 3; H336	>= 25.00 - < 50.00	wt%
4	<b>isobutane</b>			
	75-28-5 200-857-2 601-004-00-0 -	Flam. Gas 1A; H220 Press. Gas compr.; H280	>= 5.00 - < 10.00	wt%
5	<b>propane</b>			
	74-98-6 200-827-9 601-003-00-5 -	Flam. Gas 1A; H220 Press. Gas	>= 5.00 - < 10.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C, U	-	-	-
3	C	-	-	-
5	U	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**
**General information**

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Remove soiled or soaked clothing immediately.

**After inhalation**

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

**After skin contact**

In case of contact with skin wash off with plenty of water.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

**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**

No data available.

**SECTION 5: Firefighting measures**
**5.1 Extinguishing media**

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**Suitable extinguishing media**

Carbon dioxide; Extinguishing powder; Foam

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Exposure to heat may cause bursting of the aerosol packagings.

**5.3 Advice for firefighters**

When extinguishing fires, use breathing apparatus with an independent source of air. Cool endangered containers with water in case of fire. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

**6.4 Reference to other sections**

No data available.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

**Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

**General protective and hygiene measures**

Do not eat or drink during work - no smoking. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes and skin.

**Advice on protection against fire and explosion**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions**

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

**Requirements for storage rooms and vessels**

Storage rooms must be properly ventilated.

**Incompatible products**

Do not store together with: oxidizing substances; spontaneously combusting substances; oxidizing agents

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**7.3 Specific end use(s)**

No data available.

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

**8.1 Control parameters**

**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Butane			
	WEL short-term (15 min reference period)	1810	mg/m <sup>3</sup> 750 ppm
	WEL long-term (8-hr TWA reference period)	1450	mg/m <sup>3</sup> 600 ppm
	Comments	Carc. (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
2	pentane	109-66-0	203-692-4
<b>2006/15/EC</b>			
Pentane			
	WEL long-term (8-hr TWA reference period)	3000	mg/m <sup>3</sup> 1000 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Pentane			
	WEL long-term (8-hr TWA reference period)	1800	mg/m <sup>3</sup> 600 ppm

**DNEL, DMEL and PNEC values**

**DNEL values (worker)**

No	Substance name	CAS / EC no	
Route of exposure	Exposure time	Effect	Value
1	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0 931-254-9	
dermal	Long term (chronic)	systemic	13964 mg/kg/day
inhalative	Long term (chronic)	systemic	5306 mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name	CAS / EC no	
Route of exposure	Exposure time	Effect	Value
1	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0 931-254-9	
oral	Long term (chronic)	systemic	1301 mg/kg/day
dermal	Long term (chronic)	systemic	1377 mg/kg/day
inhalative	Long term (chronic)	systemic	1131 mg/m <sup>3</sup>

**8.2 Exposure controls**

**Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Personal protective equipment**

**Respiratory protection**

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators: Use half-mask model with cartridge or air-fed. Recommendation: gas filter AX, code colour: brown

**Eye / face protection**

Tightly fitting safety glasses (EN 166).

**Hand protection**

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Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

**Other**

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties**

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

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
Aerosol	
<b>Colour</b>	
colourless	
<b>Odour</b>	
characteristic	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Value	-60 °C
Source	Manufacturer
<b>Ignition temperature</b>	
No data available	
<b>Auto-ignition temperature</b>	
Value	> 200 °C
Source	Manufacturer
<b>Flammability</b>	
No data available	
<b>Lower explosion limit</b>	
Value	1 % vol
Source	Manufacturer
<b>Upper explosion limit</b>	
Value	10.9 % vol
Source	Manufacturer
<b>Vapour pressure</b>	

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Value	2600	hPa
Reference temperature	20	°C
Source	Manufacturer	

<b>Relative vapour density</b>
No data available

<b>Relative density</b>
No data available

<b>Density</b>		
Value	0.62	g/cm <sup>3</sup>
Reference temperature	20	°C
Source	Manufacturer	

<b>Solubility</b>
No data available

<b>Partition coefficient n-octanol/water (log value)</b>
No data available

<b>Kinematic viscosity</b>
No data available

<b>Particle characteristics</b>
No data available

**9.2 Other information**

<b>Other information</b>
No data available.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

<b>Acute oral toxicity</b>
No data available

<b>Acute dermal toxicity</b>
No data available

<b>Acute inhalational toxicity</b>
No data available

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**Skin corrosion/irritation**

No	Product Name
1	Silicon
Source Evaluation	Manufacturer irritant

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Reproduction toxicity**

No data available

**Carcinogenicity**

No data available

**STOT - single exposure**

No	Product Name
1	Silicon
Source Effects	Manufacturer May cause drowsiness or dizziness.

**STOT - repeated exposure**

No data available

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Toxicity to fish (acute)**

No data available

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No data available

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No data available

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

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**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

**Other adverse effects**

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

**12.8 Other information**

**Other information**

The product should not be allowed to enter drains or water courses.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Hand over only completely emptied aerosol cans for valuable substance recovery!

**Packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

## SECTION 14: Transport information

**14.1 Transport ADR/RID/ADN**

Class	2
Classification code	5F
UN number	UN1950
Proper shipping name	AEROSOLS
Tunnel restriction code	D
Label	2.1
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	2
UN number	UN1950
Proper shipping name	AEROSOLS
Technical name	Hydrocarbons, C6, isoalkanes, <5% n-hexane pentane
EmS	F-D, S-U
Label	2.1
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	2.1
UN number	UN1950
Proper shipping name	Aerosols, flammable

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Label 2.1

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

## SECTION 15: Regulatory information

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

**EU regulations**

**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2, P3a
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If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content	92.5 %
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**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.

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H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

**C** Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

**U** When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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