

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

Printing date 16.02.2021

Version number 5




Revision: 16.02.2021

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

- **1.1 Product identifier**
- **Trade name:** POLO BikeCare Silicone Spray
- **Article number:** 55120000670
- **UFI:** 31JF-U5CA-J00T-4VDR
- **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:**  
POLO Motorrad und Sportswear GmbH  
Polostr. 1  
41363 Jüchen
  
- **Tel:** 02165 84 40 200  
**Fax:** 01265 84 40 450  
**E-Mail:** info@polo-motorrad.com
- **Further information obtainable from:**  
Safety Department  
sicherheit@dr-stoecker.de
- **1.4 Emergency telephone number:**  
INTERNATIONAL: +49 (0) 6132 / 84463 (GBK Gefahrgut Büro GmbH, Ingelheim)

### 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.
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:**  
pentane
- **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

(Contd. on page 2)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

**Trade name: POLO BikeCare Silicone Spray**

(Contd. of page 1)

- 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.*  
 P273 *Avoid release to the environment.*  
 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 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1 Reg.nr.: 01-2119459286-30	pentane <i>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336</i>	50-100%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane, pure <i>Flam. Gas 1A, H220; Press. Gas (Comp.), H280</i>	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane <i>Flam. Gas 1A, H220; Press. Gas (Comp.), H280</i>	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane <i>Flam. Gas 1A, H220; Press. Gas (Comp.), H280</i>	≥0-≤2.5%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥30%
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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:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
*Immediately wash with water and soap and rinse thoroughly.*  
*If skin irritation continues, consult a doctor.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Do not induce vomiting; call for medical help immediately.*

(Contd. on page 3)



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

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

**Trade name: POLO BikeCare Silicone Spray**

(Contd. of page 2)

- **4.2 Most important symptoms and effects, both acute and delayed**  
Dizziness  
Dizziness  
Nausea  
Headache
- **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>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Can form explosive gas-air mixtures.  
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**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.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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**  
Open and handle receptacle with care.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
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.  
Do not spray onto a naked flame or any incandescent material.  
Fumes can combine with air to form an explosive mixture.

(Contd. on page 4)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

Trade name: **POLO BikeCare Silicone Spray**

(Contd. of page 3)

- **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:**  
Observe official regulations on storing packagings with pressurised containers.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Do not seal receptacle gas tight.  
Protect from heat and direct sunlight.  
Store receptacle in a well ventilated area.  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.  
Protect from frost.  
Store under lock and key and out of the reach of children.
- **Storage class: 2 B**
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

### · **Ingredients with limit values that require monitoring at the workplace:**

#### **109-66-0 pentane**

IOELV	Long-term value: 3000 mg/m <sup>3</sup> , 1000 ppm
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### · **DNELs**

#### **109-66-0 pentane**

Oral	Long term - systemic effects, general population	214 mg/kg bw/day (general population)
Dermal	Long term - systemic effects, worker	432 mg/kg bw/day (worker)
	Long term - systemic effects, general population	214 mg/kg bw/day (general population)
Inhalative	Long term - systemic effects, worker	3,000 mg/m <sup>3</sup> (worker)
	Long term - systemic effects, general population	643 mg/m <sup>3</sup> (general population)

### · **PNECs**

#### **109-66-0 pentane**

Aquatic compartment - freshwater	0.23 mg/l (freshwater)
Aquatic compartment - marine water	0.23 mg/l (marine water)
Aquatic compartment - water, intermittent releases	0.88 mg/l (intermittent release water)
Aquatic compartment - sediment in freshwater	1.2 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	1.2 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.55 mg/kg dw (soil)
sewage treatment plant	3.6 mg/l (sewage treatment plant)

- **Additional information:** The lists valid during the making were used as basis.

### · **8.2 Exposure controls**

- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
Not necessary if room is well-ventilated.

(Contd. on page 5)



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

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

**Trade name: POLO BikeCare Silicone Spray**

(Contd. of page 4)

Filter AX

Filter A/P2

· **Protection of hands:** Solvent resistant gloves· **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.

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.45$  mm· **Penetration time of glove material** Value for the permeation: Level  $\leq 6$ · **Eye protection:** Tightly sealed goggles

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Aerosol

Colour: Not determined.

· **Odour:** Characteristic· **Odour threshold:** Not determined.· **pH-value:** Not determined.· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range:  $-44$  °C· **Flash point:**  $<0$  °C· **Flammability (solid, gas):** Not applicable.· **Ignition temperature:** 285 °C· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Product is not selfigniting.· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:**

Lower: 1.4 Vol %

Upper: 8.5 Vol %

· **Oxidising properties** Not determined.· **Vapour pressure at 20 °C:** 2100 hPa· **Density at 20 °C:** 0.634 g/cm<sup>3</sup> (DIN 51757)· **Relative density** Not determined.· **Vapour density** Not determined.· **Evaporation rate** Not applicable.· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:** Not determined.

(Contd. on page 6)



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

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

Trade name: **POLO BikeCare Silicone Spray**

(Contd. of page 5)

- **Viscosity:**
- Dynamic:** Not determined.
- Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

**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 according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Protect from heat and direct sunlight.
- **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 toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**109-66-0 pentane**

Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>20 mg/l (rat)

**106-97-8 butane, pure**

Inhalative	LC50/4 h	658,000 mg/l (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:** May cause drowsiness or dizziness.
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.
- **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.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**109-66-0 pentane**

NOEC 72 h	7.51 mg/l (Pseudokrichneriella subcapitata)
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(Contd. on page 7)



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

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

Trade name: **POLO BikeCare Silicone Spray**

(Contd. of page 6)

LC50/96 h	4.26 mg/l ( <i>Oncorhynchus mykiss</i> )
EC50/48 h	2.7 mg/l ( <i>Daphnia magna</i> )
LC50/72 h	10.7 mg/l ( <i>Pseudokrichneriella subcapitata</i> )

**106-97-8 butane, pure**

EC10/5 h	658 mg/l (rat)
LC50/96 h	27.98 mg/l (fish)
EC50/96 h	7.71 mg/l (Algae, Growth inhibition test)

**74-98-6 propane**

LC50/96 h	27.98 mg/l (fish)
EC50/96 h	7.71 mg/l (Algae, Growth inhibition test)

**75-28-5 isobutane**

LC50/96 h	49.9 mg/l (fish)
EC50/96 h	19.37 mg/l (Algae, Growth inhibition test)

- **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.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for 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.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

### 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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

UN1950

- **14.2 UN proper shipping name**

- **ADR**

AEROSOLS, ENVIRONMENTALLY HAZARDOUS

- **IMDG**

AEROSOLS (PENTANES), MARINE POLLUTANT

- **IATA**

AEROSOLS, flammable

(Contd. on page 8)

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

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

**Trade name: POLO BikeCare Silicone Spray**

(Contd. of page 7)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 2.5F Gases.  
· **Label** 2.1

· **IMDG**



· **Class** 2.1  
· **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 substances: pentane

· **Marine pollutant:**

Yes  
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 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 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 1L

(Contd. on page 9)





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

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

**Trade name: POLO BikeCare Silicone Spray**

(Contd. of page 8)

- |                                   |   |
|-----------------------------------|---|
| · <b>Excepted quantities (EQ)</b> | Code: E0<br>Not permitted as Excepted Quantity      |
| · <b>Transport category</b>       | 2   |
| · <b>Tunnel restriction code</b>  | D   |
| <hr/>                             |   |
| · <b>IMDG</b>                     |   |
| · <b>Limited quantities (LQ)</b>  | 1L  |
| · <b>Excepted quantities (EQ)</b> | Code: E0<br>Not permitted as Excepted Quantity      |
| · <b>UN "Model Regulation":</b>   | UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY<br>HAZARDOUS |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **Directive 2012/18/EU**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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

### SECTION 16: Other information

This information is based on our present knowledge. However, this 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.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** Department R&D
- **Contact:** Department R&D
- **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)  
PNEC: Predicted No-Effect Concentration (REACH)  
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

(Contd. on page 10)



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

Printing date 16.02.2021

Version number 5

Revision: 16.02.2021

**Trade name: POLO BikeCare Silicone Spray**

*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.**

(Contd. of page 9)

EU