

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

Printing date 13.07.2023

Version number 6

Revision: 13.07.2023


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

- **1.1 Product identifier**
- **Trade name: POLO Racing Dynamic BREAKDOWN SPRAY**
- **Article number: 5514000000**
- **UFI: 98EC-G0N9-500C-4UEP**
- **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** Sealant
- **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](mailto:info@polo-motorrad.com)
- **Further information obtainable from:**  
Safety Department  
[sicherheit@dr-stoecker.de](mailto: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.

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- **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
- **Signal word** Danger
- **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- **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.  
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.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **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 Reg.nr.: 01-2119486944-21	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 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-<50%
CAS: 107-21-1 EINECS: 203-473-3 Index number: 603-027-00-1 Reg.nr.: 01-2119456816-28	ethanediol STOT RE 2, H373; Acute Tox. 4, H302	1-<5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1-<5%
CAS: 7664-41-7 EINECS: 231-635-3 Index number: 007-001-00-5	ammonia, anhydrous Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Acute Tox. 4, H302; Flam. Gas 2, H221; Press. Gas (Comp.), H280	<1%

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

aliphatic hydrocarbons ≥30%· **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.· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

#### · 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:

Carbon dioxide

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*Sand**Fire-extinguishing powder**Alcohol resistant foam**Water haze*

- **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:**

*Do not allow product to reach sewage system or any water course.**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.*

- **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:**

*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.*

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- **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

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

###### **107-21-1 ethanediol**

IOELV	Short-term value: 104 mg/m <sup>3</sup> , 40 ppm
	Long-term value: 52 mg/m <sup>3</sup> , 20 ppm
	Skin

###### **7664-41-7 ammonia, anhydrous**

IOELV	Short-term value: 36 mg/m <sup>3</sup> , 50 ppm
	Long-term value: 14 mg/m <sup>3</sup> , 20 ppm

##### · **DNELs**

###### **107-21-1 ethanediol**

Dermal	Long-term - systemic effects, worker	106 mg/kg bw/day (worker)
	Long term - systemic effects, general population	53 mg/kg bw/day (general population)
Inhalative	Long-term - local effects, worker	35 mg/m <sup>3</sup> (worker)
	Long term - local effects, general population	7 mg/m <sup>3</sup> (general population)

##### · **PNECs**

###### **107-21-1 ethanediol**

Aquatic compartment - freshwater	10 mg/l (Sweet Water / Süßwasser)
Aquatic compartment - marine water	1 mg/l (marine water)
Aquatic compartment - water, intermittent releases	10 mg/l (intermittent release water)
Aquatic compartment - sediment in freshwater	20.9 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	1 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	1.53 mg/kg dw (soil)
sewage treatment plant	199.5 mg/l (sewage treatment plant)

· **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:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX

Filter A/P2

- **Hand protection** Protective 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.

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.6$  mm

- **Penetration time of glove material** Value for the permeation: Level  $\leq 6$

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· **Eye/face protection** Tightly sealed goggles

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

- **Physical state** Aerosol
- **Colour:** White
- **Odour:** Characteristic
- **Odour threshold:** No further relevant information available.
- **Melting point/freezing point:** No further relevant information available.
- **Boiling point or initial boiling point and boiling range** No further relevant information available.
- **Flammability** flammable aerosol
- **Lower and upper explosion limit**
- **Lower:** 5 Vol %
- **Upper:** 15 Vol %
- **Flash point:** -88.6 °C
- **Ignition temperature:** 287 °C
- **Decomposition temperature:** No further relevant information available.
- **pH at 20 °C** 10-11 (DIN 19268)
- **Viscosity:**
- **Kinematic viscosity** No further relevant information available.
- **Dynamic:** No further relevant information available.
- **Solubility**
- **water:** Soluble.
- **Partition coefficient n-octanol/water (log value)** Does not apply to mixtures.
- **Vapour pressure at 25 °C:** 0.1 hPa
- **Density and/or relative density**
- **Density at 20 °C:** 0.68-0.7 g/cm<sup>3</sup> (DIN 51757)
- **Relative density** No further relevant information available.
- **Vapour density** No further relevant information available.

#### · 9.2 Other information

- **Appearance:**
- **Form:** Aerosol
- **Important information on protection of health and environment, and on safety.**
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Change in condition**
- **Softening point/range**
- **Oxidising properties** No further relevant information available.
- **Evaporation rate** No further relevant information available.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols**  
Extremely flammable aerosol. Pressurised container: May burst if heated.
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void

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- *Flammable solids* Void
- *Self-reactive substances and mixtures* Void
- *Pyrophoric liquids* Void
- *Pyrophoric solids* Void
- *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 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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

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

Inhalative	LC50/4 h	658,000 mg/l (rat)
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**107-21-1 ethanediol**

Oral	LD50	7,712 mg/kg (rat)
Dermal	LD50	>3,500 mg/kg (mouse)
Inhalative	LC50/6 h	>2.5 mg/l (rat)

**7664-41-7 ammonia, anhydrous**

Oral	LD50	350 mg/kg (rat)
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- **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.
- **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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.

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· **11.2 Information on other hazards**· **Endocrine disrupting properties**

None of the ingredients is listed.

\* **SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****74-98-6 propane**

LC50/96 h 27.98 mg/l (fish)

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

**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)

**107-21-1 ethanediol**NOEC 8,590 mg/l (Ceriodaphnia dubia)  
7 d15,380 mg/l (Pimephlas promelas)  
7 dEC20 >1,995 mg/l (bel) (ISO 8192)  
0,5 h

LC50/96 h 72,860 mg/l (Pimephlas promelas)

EC50 10,000 mg/l (Pseudomonas putida)

EC50/48 h &gt;100 mg/l (Daphnia magna) (OECD 202)

EC50/96 h 6,500-13,000 mg/l (Selenastrum capricornutum)

**75-28-5 isobutane**

LC50/96 h 49.9 mg/l (fish)

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

**7664-41-7 ammonia, anhydrous**

EC10/5 h 2,000 mg/l (rat)

· **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.· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**· **Remark:** Harmful to fish· **Additional ecological information:**· **General notes:**

Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**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 or ID number**· **ADR, IMDG, IATA**

UN1950

· **14.2 UN proper shipping name**· **ADR, IMDG**

AEROSOLS

· **IATA**

AEROSOLS, flammable

· **14.3 Transport hazard class(es)**· **ADR**· **Class**

2.5F Gases.

· **Label**

2.1

· **IMDG, IATA**· **Class**

2.1 Gases.

· **Label**

2.1

· **14.4 Packing group**· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Warning: Gases.

· **Hazard identification number (Kemler code):**

-

· **EMS Number:**

F-D,S-U

· **Segregation groups**

(SGG18) Alkalis

· **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.

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- *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 Maritime transport in bulk according to IMO instruments** *Not applicable.*
- **Transport/Additional information:**

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- **ADR**
- **Limited quantities (LQ)** *1L*
- **Excepted quantities (EQ)** *Code: E0  
Not permitted as Excepted Quantity*
- **Transport category** *2*
- **Tunnel restriction code** *D*

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- **IMDG**
- **Limited quantities (LQ)** *1L*
- **Excepted quantities (EQ)** *Code: E0  
Not permitted as Excepted Quantity*
- **UN "Model Regulation":** *UN 1950 AEROSOLS, 2.1*

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
*No further relevant information available.*
- **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.*

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

*None of the ingredients is listed.*

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

*None of the ingredients is listed.*

· **Regulation (EC) No 273/2004 on drug precursors**

*None of the ingredients is listed.*

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

*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.*

*H221 Flammable gas.*

*H280 Contains gas under pressure; may explode if heated.*

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H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

· **Classification according to Regulation (EC) No 1272/2008** Calculation method

· **Department issuing SDS:** Department R&D

· **Contact:** Department R&D

· **Date of previous version:** 13.07.2023

· **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

Flam. Gas 2: Flammable gases – Category 2

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

· **Sources**

(EC) No 1907/2006 (REACH) as amended.

(EC) No. 1272/2008 (CLP) in the valid version

Guidance on the compilation of safety data sheets as amended (ECHA)

Guidance on labelling and packaging according to Regulation (EC) No 1272/2008 (CLP) as amended (ECHA)

Safety data sheets of the ingredients

ECHA homepage - Information on chemicals

· **\* Data compared to the previous version altered.**