



**ES WIRKT.**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**Kettenreiniger-Spray**

Print date 31.05.2023  
Revision date 31.05.2023  
Version 2.1 (en)  
replaces version of 16.01.2023 (2.0)

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

**1.1 Product identifier**

Trade name/designation Kettenreiniger-Spray

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

**Use of the substance/mixture**

For bicycle and motorbike chains, gears, frames and rims

**Remark**

UFI: 2NMC-N133-Y00Q-S93E

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

**Manufacturer**

F.W.Klever  
Hauptstraße 20  
D-84168 Aham  
Telephone +49 (0) 8744 96 99 10  
Telefax + 49 (0) 8744 96 99 96  
E-mail info@ballistol.de  
Website www.ballistol.de

Department responsible for information:

Qualitätssicherung  
Telephone +49 (0) 8744 96 99 80

E-mail (competent person):

info@ballistol.de

**1.4 Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

**\* SECTION 2: Hazards identification**

**\* 2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Aerosol 1, H222 H229  
Skin Irrit. 2, H315  
Eye Dam. 1, H318  
Aquatic Chronic 2, H411

**Hazard statements for physical hazards**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.

**Hazard statements for health hazards**

H315 Causes skin irritation.  
H318 Causes serious eye damage.



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**Hazard statements for environmental hazards**

H411 Toxic to aquatic life with long lasting effects.

**\* 2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms**



GHS02



GHS05



GHS09

**Signal word**

Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P251 Do not pierce or burn, even after use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/protective clothing and eye/face protection.  
P211 Do not spray on an open flame or other ignition source.  
P264 Wash hands thoroughly after handling.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container to recycling

**2.3 Other hazards**

No data available

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

**3.1 Substances**

not applicable

**3.2 Mixtures**

**Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
74-98-6	200-827-9	propane	< 20 weight-%	Flam. Gas 1; H220 Press. Gas	
106-97-8	203-448-7	butane	< 20 weight-%	Flam. Gas 1; H220 Press. Gas	



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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
25307-17-9	246-807-3	Bis(2-Hydroxyethyl)Oleyamin	< 5 weight-%	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=10 (Aquatic Acute 1) M=1 (Aquatic Chronic 1)

REACH No.	Substance name
01-2119510876-35	Bis(2-Hydroxyethyl)Oleyamin

**Remark**

Aerosol: Propellant propane/butane gas

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

Remove contaminated, saturated clothing immediately.

**Following inhalation**

Provide fresh air.  
In the event of symptoms refer for medical treatment.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.  
In case of skin irritation, consult a physician.

**After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**Following ingestion**

Do NOT induce vomiting.  
If troubles appear bring to a medical treatment  
Rinse mouth thoroughly with water.

**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**

**Notes for the doctor**

Treat symptomatically.



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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Foam  
Carbon dioxide (CO<sub>2</sub>)  
Water spray jet

**Unsuitable extinguishing media**

Full water jet

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

**Hazardous combustion products**

Carbon monoxide  
Vapours may form explosive mixtures with air

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.  
Heating leads to pressure increase and risk of cracking

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**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Provide adequate ventilation.  
Use personal protection equipment.  
Remove all sources of ignition.  
Do not breath vapour or spray.

**6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

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

**For containment**

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).

**6.4 Reference to other sections**

No data available

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**SECTION 7: Handling and storage**



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**7.1 Precautions for safe handling**

**Protective measures**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Protect aerosols from temperatures exceeding 50°C/ 122°F

Do not open with force or incinerate, even when empty

Avoid:

Eye contact

Skin contact

Do not inhale aerosols

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.

Storing of food in workroom forbidden.

Wash hands before breaks and after work.

Use protective skin cream before handling the product.

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

**Storage class**

2B Aerosol dispensers and lighters

**Materials to avoid**

Do not store together with:

Food and feedingstuffs

**Further information on storage conditions**

Protect from extreme heat and cold.

Keep cool.

**7.3 Specific end use(s)**

No data available

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

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
106-97-8	203-448-7	n-Butane	600 [ml/m <sup>3</sup> (ppm)] 1450 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 750 Short-term(mg/m <sup>3</sup> ) 1810 (UK)
106-97-8	203-448-7	n-Butane	Short-term(ml/m <sup>3</sup> ) 1000 (1) (1) 15 minutes average value (IE)

**8.2 Exposure controls**

**Personal protection equipment**

**Eye/face protection**

safety goggles

**Hand protection**

Gloves (solvent-resistant)



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**Body protection:**

Protective clothing

**Respiratory protection**

Respiratory protection necessary at:  
aerosol or mist formation

The following applies to propane in general: If the concentration is exceeded, closed-circuit breathing apparatuses must be used

Use filter apparatus type AX, identification colour brown according to EN 371

**Environmental exposure controls**

**Technical measures to prevent exposure**

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**SECTION 9: Physical and chemical properties**

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

**Physical state**

Aerosol

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	kinematic approx. 20 mm <sup>2</sup> /s (20°C)		
Solubility(ies)	not determined		
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	0.88 g/cm <sup>3</sup> (20°C) pressure 1013 mbar		
Relative vapour density	not determined		
particle characteristics	not determined		

**9.2 Other information**

No data available



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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

No data available

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

Formation of explosive gas/air mixtures.  
Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C/122°F.

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

No data available

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**SECTION 11: Toxicological information**

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

**Acute toxicity**

**Animal data**

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	not determined		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

**Skin corrosion/irritation**

not determined

**Serious eye damage/irritation**

not determined

**Sensitisation to the respiratory tract**

not determined

**Skin sensitisation**

not determined

**Germ cell mutagenicity**

not determined

**Carcinogenicity**

not determined

**Reproductive toxicity**

not determined

**STOT-single exposure**

not determined

**STOT-repeated exposure**

not determined



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**Aspiration hazard**

not determined

**11.2 Information on other hazards**

No data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

**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**

**Additional ecotoxicological information**

**Additional information**

Do not allow uncontrolled discharge of product into the environment.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Appropriate disposal / Product**

Disposal according to local regulations





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**Appropriate disposal / Package**

Completely emptied packages can be recycled.  
Recycle sales packaging via DSD (Duales System Deutschland).

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	UN 1950	UN 1950	UN 1950
<b>14.2 UN proper shipping name</b>	AEROSOLS	AEROSOLS	Aerosols, flammable
<b>14.3 Transport hazard class(es)</b>	2.1	2.1	2.1
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	No	No	No
<b>14.6 Special precautions for user</b>	No data available		
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No data available		

**Land transport (ADR/RID)**

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Hazard label(s)	2.1
Classification code	5F
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Special provisions	190, 327, 344, 625
Tunnel restriction code	D

**Sea transport (IMDG)**

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Marine pollutant	No
EmS	F-D, S-U



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**Air transport (ICAO-TI / IATA-DGR)**

UN number or ID number UN 1950  
UN proper shipping name Aerosols, flammable  
Transport hazard class(es) 2.1  
Packing group -  
Environmental hazards No

**SECTION 15: Regulatory information**

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

No data available

**15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Additional information**

National and local regulations concerning chemicals shall be observed. The information shall be considered in this data accurate and up-to-date knowledge of the revision date. They do not guarantee the adherence of certain features in the sense of legally binding. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Relevant H- and EUH-phrases (Number and full text)**

H220 Extremely flammable gas.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Indication of changes**

\* Data changed compared with the previous version