



ES WIRKT.

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

Kälte-Spray

Print date 22.01.2024
Revision date 22.01.2024
Version 2.1 (en)
replaces version of 02.03.2023 (2.0)

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

1.1 Product identifier

Trade name/designation Kälte-Spray
Unique Formula Identifier UFI: 8WX8-Q1QE-Q00N-36C7

Hazard components

propane

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

Use of the substance/mixture

Special cold spray for surfaces and objects

1.3 Details of the supplier of the safety data sheet

Supplier

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

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

Aerosol 1, H222



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

Classification procedure

Aerosol 1, H229

Hazard statements for physical hazards

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

2.2 Label elements

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

Hazard components

propane

Hazard pictograms



GHS02

Signal word

Danger

Hazard statements

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

Precautionary statements

P102 Keep out of reach of children.
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.
P211 Do not spray on an open flame or other ignition source.
P412 Do not expose to temperatures exceeding 50 °C/122 °F.
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	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
74-98-6	200-827-9	601-003-00-5	propane	> 70 weight-%	Flam. Gas 1; H220 Press. Gas	



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*** SECTION 4: First aid measures**

*** 4.1 Description of first aid measures**

*** General information**

Remove contaminated, saturated clothing immediately.
Remove victim out of the danger area.

Following inhalation

Provide fresh air.

Following skin contact

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

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 swallowed, immediately drink:
Water
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

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide

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 causes rise in pressure with risk of bursting



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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.
Remove all sources of ignition.
Do not breath vapour or spray.

6.2 Environmental precautions

No data available

6.3 Methods and material for containment and cleaning up

For containment

Suck off by room ventilation.

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage

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.

Take precautionary measures against static discharges.

Use only in well-ventilated areas.

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Container under pressure

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

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



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Personal protection equipment

Eye/face protection

tightly fitting goggles

Hand protection

Gloves with long cuffs
Chromate-free leather

Body protection:

Protective clothing

Respiratory protection

Respiratory protection necessary at:
aerosol or mist formation

Respiratory protection must be worn whenever the WEL levels have been exceeded

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

colourless
clear

Odour

odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	melting range -187.7 °C		
Boiling point or initial boiling point and boiling range	approx. -42 °C		(Propan)
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit approx. 10.9 Vol-%		(Propan)



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	Value	Method	Source, Remark
Lower and upper explosion limit	Lower explosion limit approx. 1.5 Vol-%		(Propan)
Flash point	not determined		
Auto-ignition temperature	approx. 450 °C		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	Water solubility < 0.1 g/L (20°C) pressure 1013 mbar		
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	approx. 8.36 bar (20°C)		
Density and/or relative density	approx. 0.5 g/cm³ (20°C) pressure 1013 mbar		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

No data available

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

Oxidising agent, strong

10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide

Additional information

Product is stable under normal storage conditions



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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

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant.		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant.		

Sensitisation to the respiratory tract

not determined

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

STOT-single exposure

not determined

STOT-repeated exposure

not determined

Aspiration hazard

not determined

11.2 Information on other hazards

Other information

May cause frostbite.
The product has not been tested. The information is derived from the properties of the individual components.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Table with 4 columns: Effective dose, Method, Evaluation, Source, Remark. Rows include Acute and Chronic fish toxicity, crustacea, aquatic invertebrate, algae and cyanobacteria, and other aquatic plants/organisms.

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

If appropriate application no interferences in sewage treatment plants. Do not allow uncontrolled discharge of product into the environment. The breakdown properties of the product have not been tested. The information on these is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Table with 2 columns: Waste code product, Waste name. Row: 160505, gases in pressure containers other than those mentioned in 16 05 04

Appropriate disposal / Product

Product rests: send for disposal, e.g. special waste incineration. Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)".



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Appropriate disposal / Package

Completely emptied packages can be recycled.

SECTION 14: Transport information

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

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number UN 1950
UN proper shipping name Aerosols, flammable



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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

Other regulations (EU)

To follow:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
Aerosol directive (75/324/EEC)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

VOC content, ready-to-use condition approx. 99.5 %

15.2 Chemical Safety Assessment

National regulations

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 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.
R12 = Extremely flammable

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

H220 Extremely flammable gas.

Indication of changes

* Data changed compared with the previous version