



ES WIRKT.

Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)
revision 25.05.2021 (GB) Version 1.7
Kälte-Spray

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

1.1. Product identifier

Name of product Kälte-Spray

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

Identified uses

! Remark

UFI: 8WX8-Q1QE-Q00N-36C7

! Recommended intended purpose(s)

Special cold spray for surfaces and objects

1.3. Details of the supplier of the safety data sheet

Manufacturer

F.W.Klever
Hauptstraße 20, D-84168 Aham
Phone +49 (0) 8744 96 99 10, Fax + 49 (0) 8744 96 99 96
E-Mail info@ballistol.de
Internet www.ballistol.de

Advice

Qualitätssicherung
Phone +49 (0) 8744 96 99 30
E-mail (competent person):
info@ballistol.de

1.4. Emergency telephone number

Emergency advice

Dr.Zettler (Werktags von 8.00 Uhr bis 16.00 Uhr) oder
Giftnotrufzentrale 022819240
Phone +49 (0) 8744 96 99 30

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Aerosol 1	H222, H229	
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Hazard statements for physical hazards

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

! Additional hints

Temperatura de aprindere 450°C

2.2. Label elements



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



GHS02

Signal word
Danger

Hazard statements for physical hazards

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

Precautionary Statements

General

P102 Keep out of reach of children.

Prevention

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.

Storage

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P412 Do not expose to temperatures exceeding 50°C/122°F.

Disposal

P501 Dispose of contents/container to recycling

Hazardous ingredients for labeling

propane

2.3. Other hazards

No information available.

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
74-98-6	200-827-9	propane	> 70	Flam. Gas 1, H220 / Press. Gas

! SECTION 4: First aid measures

4.1. Description of first aid measures

! General information

Remove contaminated soaked clothing immediately.
Scoateți persoanele afectate din zona periculoasă și îndetaliați-le.



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In case of inhalation

Ensure fresh air.

In case of skin contact

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

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Do not induce vomiting.

Give water to drink in small sips.

Rinse out mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

Additional information

Cool endangered containers with water spray jet.

Heating causes rise in pressure with risk of bursting

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Keep away sources of ignition.

Do not breathe vapour or spray.

6.2. Environmental precautions

No information available.

6.3. Methods and material for containment and cleaning up

Suck off by room ventilation.



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6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Take measures against electrostatically charging.

Use only in well-ventilated areas.

Do not spray into flames or ignition sources

General protective measures

Avoid contact with eyes and skin

Do not inhale aerosols

Hygiene measures

At work do not eat, drink, smoke or take drugs.

Storing of food in workroom forbidden.

Wash hands before breaks and after work.

Use barrier skin cream.

Advice on protection against fire and explosion

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

7.2. Conditions for safe storage, including any incompatibilities

Advice on storage compatibility

Do not store together with food.

Further information on storage conditions

Protect from extreme heat and cold.

Keep cool.

Storage group 2B

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Respiratory protection

Breathing apparatus in the event of 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

Hand protection

Leather gloves



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Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Limitation and surveillance of the environment

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

aerosol

Colour

colourless, clear

Odour

odourless

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling range	ca. -42 °C				(Propan)
melting range	-187,7 °C				
Flash point	not determined				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	ca. 450 °C				
Self ignition temperature	not determined				
Lower explosion limit	ca. 1,5 Vol-%				(Propan)
Upper explosion limit	ca. 10,9 Vol-%				(Propan)
Vapour pressure	ca. 8,36 bar	20 °C			
Relative density	ca. 0,5 g/cm ³	20 °C	1013 mbar		
Vapour density	not determined				
Solubility in water	< 0,1 g/l	20 °C	1013 mbar		
Solubility/other	not determined				



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	Value	Temperature	at	Method	Remark
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
Oxidising properties No information available.					
Explosive properties No information available.					
9.2. Other information No information available.					

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information 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

Substances to avoid

Reactions with strong oxidising agents.

10.6. Hazardous decomposition products

Carbon monoxide

Carbon dioxide

Additional information

Product is stable under normal storage conditions

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
Skin irritation	non-irritant			
Eye irritation	non-irritant			



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	Value/Validation	Species	Method	Remark
Skin sensitization	non-sensitizing			
Experiences made from practice	May cause frostbite.			
Additional information	The product has not been tested. The information is derived from the properties of the individual components.			

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

General regulation

If appropriate application no interferences in sewage treatment plants.

Do not allow uncontrolled leakage 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 code No.

16 05 05

Name of waste

gases in pressure containers other than those mentioned in 16 05 04

Recommendations for the product

Product rests: send for disposal, e.g. special waste incineration.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950



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	ADR/RID	IMDG	IATA-DGR
14.2. UN proper shipping name	Druckgaspackung	Aerosols	Aerosols, flammable
14.3. Transport hazard class(es)	2	2	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Land and inland navigation transport ADR/RID

tunnel restriction code D

Classification code 5F

SECTION 15: Regulatory information

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

Other regulations (EU)

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

Aerosol directive (75/324/EEC).

VOC standard

VOC content ca.99,5 %

National regulations

Restriction of occupation

Observe employment restrictions for young people.

Water hazard class 1 value from literature

Decree for case of interference/remarks Nr.: 7 b

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

R12 = Extremely flammable



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H220 Extremely flammable gas.