



## ! 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](mailto:info@ballistol.de)  
Internet [www.ballistol.de](http://www.ballistol.de)

#### Advice

Qualitätssicherung  
Phone +49 (0) 8744 96 99 30  
E-mail (competent person):  
[info@ballistol.de](mailto: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
Aerosol 1	H222, H229	

#### 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



**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.

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**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

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**! SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**! General information**

Remove contaminated soaked clothing immediately.  
Scoateți persoanele afectate din zona periculoasa și întindeti-va.



**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.

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## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam

Carbon dioxide

Water spray jet

**Unsuitable extinguishing media**

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

Carbon dioxide (CO<sub>2</sub>)

**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

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## 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 breath 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.



#### 6.4. Reference to other sections

No information available.

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### 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.

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### 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



**Eye protection**  
tightly fitting goggles

**Other protection measures**  
protective clothing

**Limitation and surveillance of the environment**

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## **! SECTION 9: Physical and chemical properties**

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

<b>Appearance</b>	<b>Colour</b>	<b>Odour</b>
aerosol	colourless, clear	odourless

**Odour threshold**  
not determined

### **Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>boiling range</b>	ca. -42 °C				(Propan)
<b>melting range</b>	-187,7 °C				
<b>Flash point</b>	not determined				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	ca. 450 °C				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	ca. 1,5 Vol-%				(Propan)
<b>Upper explosion limit</b>	ca. 10,9 Vol-%				(Propan)
<b>Vapour pressure</b>	ca. 8,36 bar	20 °C			
<b>Relative density</b>	ca. 0,5 g/cm3	20 °C	1013 mbar		
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>	< 0,1 g/l	20 °C	1013 mbar		
<b>Solubility/other</b>	not determined				



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



	Value/Validation	Species	Method	Remark
<b>Skin sensitization</b>	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.

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### **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.

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### **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.

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### **! SECTION 14: Transport information**

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



	ADR/RID	IMDG	IATA-DGR
<b>14.2. UN proper shipping name</b>	Druckgaspackung	Aerosols	Aerosols, flammable
<b>14.3. Transport hazard class(es)</b>	2	2	2.1
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	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

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### **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.

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### **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



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

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H220 Extremely flammable gas.