



**ES WIRKT.**

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

**Pfeffer-KO FOG**

Print date 13.09.2023  
Revision date 13.09.2023  
Version 8.2 (en)  
replaces version of 06.04.2023 (8.1)

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

**1.1 Product identifier**

Trade name/designation Pfeffer-KO FOG  
Unique Formula Identifier UFI: 7AN9-EAJ4-K00V-TYVQ

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

Use of the substance/mixture  
animal defense

**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

Eye Irrit. 2, H319

STOT SE 3, H335

**Hazard statements for physical hazards**

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

**Hazard statements for health hazards**

H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**\* 2.2 Label elements**

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



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**Hazard pictograms**



GHS02



GHS07

**Signal word**

Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/protective clothing and eye protection/face protection.  
P211 Do not spray on an open flame or other ignition source.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Only empty the contents / container for recycling.

**Special rules for supplemental label elements for certain mixtures**

EUH208 Contains 0.9% capsaicin. Can cause allergic reactions.

**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	< 15 weight-%	Flam. Gas 1; H220 Press. Gas	
106-97-8	203-448-7	butane	< 15 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
404-86-4	206-969-8	Capsaicin	0.9 weight-%	Acute Tox. 3; H301 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335	

**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**

Wash immediately with:  
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**

Rinse mouth immediately and drink plenty of water.

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

**Symptoms**

The following symptoms may occur:  
At inhalation of large quantities (whole can contents) lung edema possible.  
Cough  
Dyspnoea  
Headache

**Effects**

Respiratory complaints

**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  
ABC-powder  
Carbon dioxide (CO<sub>2</sub>)  
Water mist

**Unsuitable extinguishing media**

Strong water jet

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

**Hazardous combustion products**

In the event of fire the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
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.  
Keep people away and stay on the upwind side.  
Remove all sources of ignition.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**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**

Flush away residues with water.

**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**

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  
Do not inhale aerosols  
n.a. (non-applicable), no working material

**Advices on general occupational hygiene**

n.a. (non-applicable), no working material

**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.

**7.3 Specific end use(s)**

**Recommendation**

Only to use for self-defence, do not spray upwind

**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, in case of increased risk add protective face shield

**Hand protection**

In the event of splash contact, glove material nitrile rubber, layer thickness > 0.11 mm, breakthrough time > 60 min  
Gloves with long cuffs

**Body protection:**

Solvent-resistant protective clothing



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**Respiratory protection**

Suitable respiratory protection apparatus:  
Self-contained respirator (breathing apparatus)  
Breathing apparatus with combination filter A2/P2

**Additional information**

When used properly no personal protective equipment is required. In case of unintentional release of larger quantities we recommend:

**SECTION 9: Physical and chemical properties**

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

**Physical state**

Aerosol

**Colour**

red-dark brown

**Odour**

irritant

**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	78 °C pressure 1013 mbar		
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit approx. 10.9 Vol-%		(Propan)
Lower and upper explosion limit	Lower explosion limit approx. 1.5 Vol-%		(Propan)
Flash point	approx. 13 °C		
Auto-ignition temperature	approx. 425 °C		Die Daten beziehen sich auf das Lösemittel.
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	not determined		
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	approx. 0.8 g/cm <sup>3</sup> (20°C) pressure 1013 mbar		information concerns to liquid phase
Relative vapour density	not determined		
particle characteristics	not determined		



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**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**

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**

No hazardous decomposition products known.

**Additional information**

Product is stable under normal storage conditions

**\* 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	approx. 160 mg/kg Species Rat		Detail refers to the irritant (Contents of 4 can)
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

**Skin corrosion/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Irritant.		Practical experience/human evidence.

**Serious eye damage/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Irritant. Species Rabbit		experiences

**Sensitisation to the respiratory tract**

not determined



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Skin sensitisation

Animal data

Table with 4 columns: Result / Evaluation, Dose / Concentration, Method, Source, Remark. Content: Sensitizing was watched while permanent skin contact with active substance (CS)

\* Germ cell mutagenicity

Table with 5 columns: Value, Method, Result / Evaluation, Remark. Content: In vitro mutagenicity/genotoxicity. No substance contained in the mixture is suspected of being mutagenic

Carcinogenicity

Animal data

Table with 5 columns: Value, Method, Result / Evaluation, Remark. Content: Carcinogenicity. No substance contained in the mixture is suspected of being mutagenic

Reproductive toxicity

Animal data

Table with 5 columns: Value, Method, Result / Evaluation, Remark. Content: Reproductive toxicity. No substance contained in the mixture is suspected of being mutagenic

STOT-single exposure

STOT SE 1 and 2

Animal data

Table with 6 columns: Effective dose, Method, Specific effects, Organs affected, Source, Remark. Content: Oral specific target organ toxicity (single exposure), Dermal specific target organ toxicity (single exposure), Inhalative specific target organ toxicity (single exposure). No data available

STOT-repeated exposure

Animal data

Table with 6 columns: Effective dose, Method, Specific effects, Organs affected, Source, Remark. Content: Oral specific target organ toxicity (repeated exposure). No data available





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Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)				No data available
Dermal specific target organ toxicity (repeated exposure)				No data available
Dermal specific target organ toxicity (repeated exposure)				No data available
Inhalative specific target organ toxicity (repeated exposure)				No data available
Inhalative specific target organ toxicity (repeated exposure)				No data available

**Aspiration hazard**

not determined

**11.2 Information on other hazards**

**Other information**

Irritating to respiratory system.  
Irritates mucous membranes.

The classification of the mixture is based on the results of the calculation method (conventional method) of VO 1272/2008. According to the manufacturer's experience, dangers beyond the labeling are not to be expected.

**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		



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**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**

No data available

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
200301	mixed municipal waste

**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)
<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

**14.6 Special precautions for user**

No data available

**14.7 Maritime transport in bulk according to IMO instruments**

No data available

**All transport carriers**

Item 2.3.1.2 is forbidden to IATA, section 2 pepper/Muskat/Tear gas spray etc. which substances confusing or making incompetently contain in accordance with at the person, in the hand baggage and in pieces of baggage given up!

**Land transport (ADR/RID)**

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS



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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  
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**

**EU legislation**

**Restrictions on use**

Only to use for self-defence

**Other regulations (EU)**

**To follow:**

Aerosol directive (75/324/EEC)

**15.2 Chemical Safety Assessment**

**National regulations**

For this substance a chemical safety assessment has not been carried out.



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**SECTION 16: Other information**

**Key literature references and sources for data**

The classification of the mixture is based on the results of the calculation method (conventional method) of VO 1272/2008. According to the manufacturer's experience, dangers beyond the labeling are not to be expected.

**Additional information**

National and local regulations concerning chemicals shall be observed.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

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.
- H301 Toxic if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

**Indication of changes**

\* Data changed compared with the previous version