



Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)
revision 18.07.2018 (GB) Version 6.4
Pfeffer-KO FOG

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

1.1. Product identifier

Name of product Pfeffer-KO FOG

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

Recommended intended purpose(s)

Animal defense

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
This number is only available at office times.

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	
Skin Irrit. 2		
Eye Irrit. 2	H319	
Skin Sens. 1		
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/GHS]



GHS02



GHS07

Signal word

Danger

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.

Precautionary Statements

General

P101 If medical advice is needed, have product container or label at hand.
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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water/...
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see ... on this label).
P332 + P313 If skin irritation occurs: Get medical advice/attention.
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.

Storage

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

Disposal

P501 Only empty the contents / container for recycling.

Special rules for supplemental label elements for certain mixtures

Contains 0.9% capsaicin. Can cause allergic reactions.

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	< 15	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	butane	< 15	Flam. Gas 1, H220 / Press. Gas
404-86-4		Capsaicin	0,9	Acute Tox. 3, H301 / Resp. Sens. 1, H334 / Eye Dam. 1, H318 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / STOT SE 3, H335

Additional advice

Aerosol: Propellant propane/butane gas

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with plenty of 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

Rinse out mouth and give plenty of water to drink.

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

Physician's information / possible symptoms

The following symptoms may occur:

At inhalation of large quantities (whole can contents) lung edema possible.

Coughing

Shortness of breath

Headache

Physician's information / possible dangers

Risk of respiratory disorders

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

Treatment (Advice to doctor)

Treat symptoms.



SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam
ABC powder
Carbon dioxide
water mist

Unsuitable extinguishing media

Strong water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Possibly in combination with the elimination of cyanide water.

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 people away and stay on the upwind side.
Keep away sources of ignition.
Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

6.3. Methods and material for containment and cleaning up

Flush away residues with water.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not spray into flames or ignition sources

General protective measures

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



Hygiene measures

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

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
Protect aerosols from temperatures exceeding 50°C
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.

Storage group 2B

7.3. Specific end use(s)

Recommendation(s) for intended use

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

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

! Additional advice

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

8.2. Exposure controls

! Respiratory protection

Breathing apparatus
Breathing apparatus with combination filter A2/P2

! Hand protection

In the event of splash contact, glove material nitrile rubber, layer thickness > 0.11 mm, breakthrough time > 60 min
Protective gloves

! Eye protection

safety goggles, in case of increased risk add protective face shield

! Other protection measures

Solvent-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

aerosol

Colour

red

Odour

irritant

Odour threshold



not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point	< -104 °C				(Propan)
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	ca. 425 °C				information concern solvent
Self ignition temperature	not determined				
Lower explosion limit	ca. 1,5 Vol-%				(Propan)
Upper explosion limit	ca. 10,9 Vol-%				(Propan)
Vapour pressure	ca. 7,5 bar	20 °C			pressure inside of the can
Relative density	ca. 0,8 - 0,9 g/cm ³	20 °C			information concerns to liquid phase
Vapour density	not determined				
Solubility in water					depends on concentration
Solubility/other	not determined				
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

Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C.

10.5. Incompatible materials

Substances to avoid

Reactions with strong oxidising agents.

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 toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	ca. 160 mg/kg	rat (male / female)		Detail refers to the irritant (Contents of 4 can)
Skin irritation	irritant			experiences
Eye irritation	irritant	rabbit eye		experiences
Skin sensitization	Sensitizing was watched while permanent skin contact with active substance (CS)			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Subacute Toxicity				No data available



Value	Species	Method	Validation
Subchronic Toxicity			No data available
Chronic Toxicity			No data available
Mutagenicity			No substance contained in the mixture is suspected of being mutagenic
Reproduction-Toxicity			No substance contained in the mixture is suspected of being mutagenic
Carcinogenicity			No substance contained in the mixture is suspected of being mutagenic

Experiences made from practice

Irritates respiratory tract.

Irritates mucous membranes.

! Additional information

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

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

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

20 03 01

Name of waste

mixed municipal waste

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
14.2. UN proper shipping name	-	Aerosol (propane)	Aerosols flammable (propane)
14.3. Transport hazard class(es)	-	2	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	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.

Transport/further information

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!

SECTION 15: Regulatory information

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

Application restrictions

Only to use for self-defence

Other regulations (EU)

Aerosol directive (75/324/EEC).

National regulations

Water hazard class 2 self-classification

Decree for case of interference/remarks 2

15.2. Chemical Safety Assessment

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

! SECTION 16: Other information

Recommended uses and restrictions

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.

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.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 6.3

! Sources of key data used

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.

- H220 Extremely flammable gas.
- H301 Toxic if swallowed.
- H315 Causes skin irritation.
- 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.