



Safety Data Sheet according to Regulation (EC)  
No. 1907/2006 (REACH)  
revision 07.08.2018 (GB) Version 8.4  
**Pfeffer-KO JET**

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

### 1.1. Product identifier

Name of product Pfeffer-KO JET

### 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/distributor

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 |
|--------------------------------------|-------------------|--------------------------|
| Eye Irrit. 2                         | H319              |                          |
| Skin Sens. 1                         |                   |                          |
| STOT SE 3                            | H335              |                          |

### Hazard statements for physical hazards

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

Warning



#### Hazard statements for physical hazards

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 From heat, hot surfaces, sparks, flames and other sources of ignition. Do not smoke.

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/... .

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.

P312 Call a POISON CENTER/doctor/.../if you feel unwell.

P321 Specific treatment (see ... on this label).

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

P362 + P364 Take off contaminated clothing and wash it before reuse.

##### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 Protect from sunlight.

P411 Bei Temperaturen nicht über 50 °C aufbewahren.

##### Disposal

P501 Only empty the contents / container for recycling.

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

Enthält 0,9 % Capsaicin . Kann allergische Reaktionen hervorrufen.

#### 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

##### Description

Capsaicin is component of the natural Oleoresin Capsicum



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#### Hazardous ingredients

| CAS No     | EC No     | Name               | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|------------|-----------|--------------------|------------|--|
| 64-17-5    | 200-578-6 | ethyl alcohol      | 89         | Flam. Liq. 2, H225   |
| 85940-30-3 |           | Oleoresin Capsicum | 0,9        |  |

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove contaminated soaked clothing immediately.  
Take away from danger area and lay down affected person.

##### In case of inhalation

Ensure of fresh air.

##### 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:

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.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Foam  
ABC powder  
Carbon dioxide  
water mist

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

No information available.



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### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.  
Do not inhale explosion and/or combustion gases.

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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.  
Use personal protective clothing.  
Keep away sources of ignition.

### 6.2. Environmental precautions

No information available.

### 6.3. Methods and material for containment and cleaning up

Flush away residues with water.

### 6.4. Reference to other sections

No information available.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### General protective measures

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

### 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)

No information available.

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## ! SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### ! Additional advice

Bei sachgerechtem Gebrauch ist keine persönliche Schutzausrüstung erforderlich. Im Falle einer unbeabsichtigten Freisetzung größerer Mengen empfehlen wir:



## 8.2. Exposure controls

### ! Respiratory protection

Breathing apparatus  
Breathing apparatus with combination filter A2/P2

### ! Hand protection

Bei Spritzkontakt Handschuhmaterial Nitrilkautschuk, Schichtstärke >0,11 mm, Durchbruchzeit > 60 min

### ! 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

liquid

#### Colour

red

#### Odour

acid

#### Odour threshold

not determined

### Important health, safety and environmental information

|                                  | Value          | Temperature | at | Method | Remark                        |
|----------------------------------|----------------|-------------|----|--------|-------------------------------|
| <b>pH value</b>                  | not determined |             |    |        |                               |
| <b>boiling point</b>             | 78 °C          |             |    |        | the data refer to the solvent |
| <b>melting point</b>             | ca. -114 °C    |             |    |        | The data refer to the solvent |
| <b>Flash point</b>               | 18 °C          |             |    |        | information for solvent       |
| <b>Vapourisation rate</b>        | not determined |             |    |        |                               |
| <b>Flammable (solid)</b>         | not determined |             |    |        |                               |
| <b>Flammability (gas)</b>        | not determined |             |    |        |                               |
| <b>Ignition temperature</b>      | ca. 425 °C     |             |    |        | information concern solvent   |
| <b>Self ignition temperature</b> | ab 465 °C      |             |    |        |                               |
| <b>Lower explosion limit</b>     | ca. 3,5 Vol-%  |             |    |        | information concern solvent   |
| <b>Upper explosion limit</b>     | ca. 15 Vol-%   |             |    |        | information concern solvent   |



|  | Value                              | Temperature | at | Method | Remark                        |
|--|------------------------------------|-------------|----|--------|-------------------------------|
| <b>Vapour pressure</b>                                   | ca. 58 hPa                         | 20 °C       |    |        | the data refer to the solvent |
| <b>Relative density</b>                                  | ca. 0,8 - 0,9<br>g/cm <sup>3</sup> | 20 °C       |    |        |                               |
| <b>Vapour density</b>                                    | not determined                     |             |    |        |                               |
| <b>Solubility in water</b>                               |                                    |             |    |        | multimiscible                 |
| <b>Solubility/other</b>                                  | not determined                     |             |    |        |                               |
| <b>Partition coefficient n-octanol/water (log P O/W)</b> | not determined                     |             |    |        |                               |
| <b>Decomposition temperature</b>                         | not determined                     |             |    |        |                               |
| <b>Viscosity</b>   | not determined                     |             |    |        |                               |

**Oxidising properties**

No information available.

**Explosive properties**

No information available.

**9.2. Other information**

No information available.

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**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**

No information available.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

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**!SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**



|                          | Value/Validation | Species             | Method | Remark  |
|--------------------------|------------------|---------------------|--------|---|
| <b>LD50 acute oral</b>   | > 160 mg/kg      | rat (male / female) |        | Detail refers to the irritant (Contents of 4 can) |
| <b>LD50 acute dermal</b> | > 160 mg/kg      | rabbit              |        |   |
| <b>Eye irritation</b>    | strong irritant  | rabbit eye          |        |   |

**! Additional information**

Die Einstufung des Gemischs basiert auf den Ergebnissen des Berechnungsverfahrens (konventionelle Methode) der VO 1272/2008. Nach Erfahrung des Herstellers sind über die Kennzeichnung hinausgehende Gefahren nicht zu erwarten.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

|  | Elimination rate | Method of analysis | Method | Validation |
|--|------------------|--------------------|--------|------------|
|--|------------------|--------------------|--------|------------|

**Biological**

**degradability**

The product is biodegradable.

**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.**

15 01 04

**Name of waste**

metallic packaging

**Recommendations for packaging**

Totally emptied packaging may be taken for recycling.

Barrel: return by DSD ( Dualistic System Germany )

**SECTION 14: Transport information**

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



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|   | <b>ADR/RID</b>            | <b>IMDG</b> | <b>IATA-DGR</b>    |
|---|---------------------------|-------------|--------------------|
| <b>14.2. UN proper shipping name</b>  | -                         | Aerosol     | Aerosols flammable |
| <b>14.3. Transport hazard class(es)</b>   | -                         | 2           | 2.1                |
| <b>14.4. Packing group</b>  | -                         | -           | -                  |
| <b>14.5. Environmental hazards</b>  | -                         | No          | No                 |
| <b>14.6. Special precautions for user</b>   | No information available. |             |                    |
| <b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | No information available. |             |                    |

## SECTION 15: Regulatory information

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

#### National regulations

**Water hazard class** 1 value from literature

### 15.2. Chemical Safety Assessment

No information available.

## ! 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.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.3

### ! Sources of key data used

Die Einstufung des Gemischs basiert auf den Ergebnissen des Berechnungsverfahrens (konventionelle Methode) der VO 1272/2008. Nach Erfahrung des Herstellers sind über die Kennzeichnung hinausgehende Gefahren nicht zu erwarten.

H225 Highly flammable liquid and vapour.