



**ES WIRKT.**

Safety Data Sheet according to Regulation (EC)  
No. 1907/2006 (REACH)  
revision 14.12.2020 (GB) Version 6.6  
**Kupfer Grafit-Spray**

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

### 1.1. Product identifier

Name of product Kupfer Grafit-Spray

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

Identified uses

#### ! Remark

UFI: ME0P-4EWM-S00K-CFKR

#### Recommended intended purpose(s)

corrosion prevention

### 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. |

#### ! Hazard statements for environmental hazards

|      |  |
|------|--|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|--|

### 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.

### ! Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

### 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.

#### Disposal

P501 Dispose of contents/container to recycling

### 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 | ca. 45     | Flam. Gas 1, H220 / Press. Gas                                     |
| 106-97-8 | 203-448-7 | butane  | ca. 20     | 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.

#### In case of inhalation

Ensure fresh air.

In the event of symptoms refer for medical treatment.



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**In case of skin contact**

In case of contact with skin wash off immediately with soap and water.  
Consult a doctor if skin irritation persists.

**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.  
Medical treatment.

**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**

**Treatment (Advice to doctor)**

Treat symptoms.

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**! SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Fire-extinguishing activities according to surrounding.  
Dry powder  
Carbon dioxide

**Unsuitable extinguishing media**

Full water jet

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

In the event of fire the following can be released:

Nitrogen gases (NO<sub>x</sub>)  
Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

No information available.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

No information available.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

**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

Use only in well-ventilated areas.

#### General protective measures

Avoid contact with eyes and skin

#### 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

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep only in original container.

#### Advice on storage compatibility

Do not store together with oxidizing agents.

#### Further information on storage conditions

Keep container tightly closed.

Store container at cool and aired place.

**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 high concentrations.

#### Hand protection

Gloves (oil-resistant)

#### Eye protection

safety goggles

#### 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

#### Appearance

aerosol

#### Colour

silver-coloured

#### Odour

No information available.



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**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>                                     | -42 °C                     |             |    |        | (Propan)   |
| <b>Melting point / Freezing point</b>                    | not determined             |             |    |        |            |
| <b>Flash point</b>                                       | ca. -104 °C                |             |    |        | (Propan)   |
| <b>Vapourisation rate</b>                                | not determined             |             |    |        |            |
| <b>Flammable (solid)</b>                                 | not determined             |             |    |        |            |
| <b>Flammability (gas)</b>                                | not determined             |             |    |        |            |
| <b>Ignition temperature</b>                              | not determined             |             |    |        |            |
| <b>Self ignition temperature</b>                         | not determined             |             |    |        |            |
| <b>Lower explosion limit</b>                             | ca. 1,5 Vol-%              |             |    |        |            |
| <b>Upper explosion limit</b>                             | ca. 10,9 Vol-%             |             |    |        |            |
| <b>Vapour pressure</b>                                   | not determined             |             |    |        |            |
| <b>Relative density</b>                                  | ca. 0,95 g/cm <sup>3</sup> |             |    |        |            |
| <b>Vapour density</b>                                    | not determined             |             |    |        |            |
| <b>Solubility in water</b>                               |                            |             |    |        | immiscible |
| <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**

**Substances to avoid**

Reactions with oxidising agents.

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

|                           | Value/Validation    | Species | Method | Remark |
|---------------------------|---------------------|---------|--------|--------|
| <b>LD50 acute oral</b>    | 2000 mg/kg          | rat     |        |        |
| <b>Skin irritation</b>    | low irritant effect |         |        |        |
| <b>Eye irritation</b>     | low irritant        |         |        |        |
| <b>Skin sensitization</b> | non-sensitizing     |         |        |        |

**SECTION 12: Ecological information**

**12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

|                                 | Elimination rate | Method of analysis | Method | Validation                         |
|---------------------------------|------------------|--------------------|--------|------------------------------------|
| <b>Biological degradability</b> |                  |                    |        | Moderately/partially biodegradable |

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**



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No information available.

**12.6. Other adverse effects**

**General regulation**

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.**

13 02 08\*

**Name of waste**

other engine, gear and lubricating oils

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

**Recommendations for packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Barrel: return by DSD ( Dualistic System Germany )

**! SECTION 14: Transport information**

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

#### National regulations

#### Restriction of occupation

Observe employment restrictions for young people.

**Water hazard class** 1 value from literature

### 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.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 6.5

H220 Extremely flammable gas.