

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

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

- **1.1 Product identifier**
- **Trade name:** KREUL Leaf Metal Effect Spray Gold 400 ml
KREUL Leaf Metal Effect Spray Silver 400 ml
- **Article number:** 994400, 994401
- **UFI:** 0K8R-XED9-530H-TJCJ
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Lacquer
For artists and hobby user.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
C. KREUL GmbH & Co. KG
Carl-Kreul-Straße 2
D-91352 HALLERNDORF
DEUTSCHLAND
Tel. + 49 (0)9545 / 925 - 0
Fax + 49 (0)9545 / 925 - 511
E-Mail: info@c-kreul.de
- **Further information obtainable from:**
Product Safety Department:
Treiber, b.treiber@c-kreul.de
- **1.4 Emergency telephone number:** +44 (0)171 635 91 91

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



- **Signal word** Danger
- **Hazard-determining components of labelling:**
acetone
n-butyl acetate
2-methoxy-1-methylethyl acetate
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

(Contd. of page 1)

- 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.
 P260 Do not breathe spray.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

· **2.3 Other hazards**

Vapours may form explosive mixtures with air. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/ electrical equipment). Take precautionary measures against static discharges.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS 9004-70-0 is only included in Silver.

| | | |
|---|--|----------|
| CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-XXXX | acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 | 25-50% |
| CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-XXXX | n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336 | 12.5-20% |
| CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-XXXX | propane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 12.5-20% |
| CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 | butane, pure ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 10-12.5% |
| CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-XXXX | 2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226 | 5-10% |
| CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-XXXX | isobutane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 2.5-5% |
| CAS: 9004-70-0 | nitrocellulose solutions, with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose ⚠ Flam. Sol. 2, H228 | 2.5-5% |
| CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-XXXX | xylene ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 | <2.5% |
| CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX | ethanol ⚠ Flam. Liq. 2, H225 | <2.5% |

· **Additional information:**

Benzene (EINECS 200-753-7) <0.1%. (Note P Annex VI to Directive (EC) No 1272/2008)

For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· **4.1 Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Seek immediate medical advice.

· **After skin contact:**

Wash with water and acidic soap.

If skin irritation continues, consult a doctor.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

(Contd. of page 2)

- **After eye contact:**
Remove contact lenses.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Administer medicinal carbon.
A person vomiting while laying on their back should be turned onto their side.
Seek immediate medical advice.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
If swallowed or in case of vomiting, danger of entering the lungs.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.
Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Keep contaminated washing water and dispose of appropriately.
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **7.1 Precautions for safe handling**
Prevent formation of aerosols.
Take note of emission threshold.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Fumes can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:**
Do not store together with alkalis (caustic solutions).
Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store receptacle in a well ventilated area.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **Storage class:** 2B
- **7.3 Specific end use(s)** No further relevant information available.

GB
(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

(Contd. of page 3)

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

67-64-1 acetone

| | |
|-----|---|
| WEL | Short-term value: 3620 mg/m ³ , 1500 ppm |
| | Long-term value: 1210 mg/m ³ , 500 ppm |

123-86-4 n-butyl acetate

| | |
|-----|---|
| WEL | Short-term value: 966 mg/m ³ , 200 ppm |
| | Long-term value: 724 mg/m ³ , 150 ppm |

106-97-8 butane, pure

| | |
|-----|--|
| WEL | Short-term value: 1810 mg/m ³ , 750 ppm |
| | Long-term value: 1450 mg/m ³ , 600 ppm |
| | Carc (if more than 0.1% of buta-1.3-diene) |

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|-----|---|
| WEL | Short-term value: 548 mg/m ³ , 100 ppm |
| | Long-term value: 274 mg/m ³ , 50 ppm |
| | Sk |

1330-20-7 xylene

| | |
|-----|---|
| WEL | Short-term value: 441 mg/m ³ , 100 ppm |
| | Long-term value: 220 mg/m ³ , 50 ppm |
| | Sk; BMGV |

64-17-5 ethanol

| | |
|-----|--|
| WEL | Long-term value: 1920 mg/m ³ , 1000 ppm |
|-----|--|

· **DNELs**

108-65-6 2-methoxy-1-methylethyl acetate

| | | |
|------------|-------------------------------------|---|
| Oral | long-term exposure-systemic effects | 1.67 mg/kg (general population) |
| Dermal | long-term exposure-systemic effects | 54.8 mg/kg bw/d (general population) 153.5 mg/kg bw/d (worker) |
| Inhalative | long-term exposure-systemic effects | 33 mg/m ³ (general population) 275 mg/m ³ (worker) |

64-17-5 ethanol

| | | |
|------------|-------------------------------------|--|
| Oral | long-term exposure-systemic effects | 87 mg/kg (general population) |
| Dermal | long-term exposure-systemic effects | 206 mg/kg bw/d (general population) 343 mg/kg bw/d (worker) |
| Inhalative | long-term exposure-systemic effects | 114 mg/m ³ (general population) 950 mg/m ³ (worker) |

· **PNECs**

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|------------------------------|-------------|
| water | 635 mg/l |
| freshwater | 0.635 mg/l |
| marine water | 0.0635 mg/l |
| sewage treatment plant (STP) | 100 mg/l |
| freshwater sediment | 3.29 mg/kg |
| marine sediment | 0.329 mg/kg |
| soil | 0.29 mg/kg |

64-17-5 ethanol

| | |
|------------------------------|------------|
| freshwater | 0.96 mg/l |
| marine water | 0.79 mg/l |
| sewage treatment plant (STP) | 580 mg/l |
| freshwater sediment | 3.6 mg/kg |
| soil | 0.63 mg/kg |

· **Ingredients with biological limit values:**

1330-20-7 xylene

| | |
|------|---------------------------------|
| BMGV | 650 mmol/mol creatinine |
| | Medium: urine |
| | Sampling time: post shift |
| | Parameter: methyl hippuric acid |

1330-20-7 xylene

| | |
|------|---------------------------------|
| BMGV | 650 mmol/mol creatinine |
| | Medium: urine |
| | Sampling time: post shift |
| | Parameter: methyl hippuric acid |

· **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

(Contd. of page 4)

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

PVC or PE gloves
Recommended thickness of the material: \geq - mm
Value for the permeation: Level \leq 8 h

· As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR
Recommended thickness of the material: \geq 0.3 mm
Value for the permeation: Level \leq 4-8 h

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Aerosol
Colour: According to product specification
Odour: Characteristic
Odour threshold: Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 333 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Explosive with or without contact with air.

· Explosion limits:

Lower: 1.2 Vol %
Upper: 13 Vol %

· **Vapour pressure at 20 °C:** 2100 hPa

· Density at 20 °C:

· **Relative density** Not determined.
· **Vapour density** Not determined.
· **Evaporation rate** Not applicable.

(Contd. on page 6)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

(Contd. of page 5)

| | |
|--|--|
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Partition coefficient: n-octanol/water: | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 88.8 % |
| VOC (EC) | 90 % |
| · 9.2 Other information | No further relevant information available. |

10 Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

67-64-1 acetone

| | | |
|------------|---------|----------------------------|
| Oral | LD50 | 5,800 mg/kg (rat) |
| Dermal | LD50 | 20,000 mg/kg (rabbit) |
| Inhalative | LC50/4h | 76 mg/m ³ (rat) |

123-86-4 n-butyl acetate

| | | |
|------------|---------|-----------------------------|
| Oral | LD50 | 13,100 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) |
| Inhalative | LC50/4h | >21 mg/m ³ (rat) |

106-97-8 butane, pure

| | | |
|------------|---------|-----------------------------|
| Inhalative | LC50/4h | 658 mg/m ³ (rat) |
|------------|---------|-----------------------------|

108-65-6 2-methoxy-1-methylethyl acetate

| | | |
|------------|---------|------------------------------|
| Oral | LD50 | 8,532 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rab) |
| Inhalative | LC50/4h | 35.7 mg/m ³ (rat) |

1330-20-7 xylene

| | | |
|------------|---------|------------------------------|
| Oral | LD50 | 4,300 mg/kg (rat) |
| Dermal | LD50 | 2,000 mg/kg (rabbit) |
| Inhalative | LC50/4h | 21.7 mg/m ³ (rat) |

64-17-5 ethanol

| | | |
|------------|---------|--------------------------------|
| Oral | LD50 | 7,060 mg/kg (rat) |
| Dermal | LD50 | 12,800 mg/kg (rabbit) |
| Inhalative | LC50/4h | 20,000 mg/m ³ (rat) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

GB

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

(Contd. of page 6)

12 Ecological information

12.1 Toxicity

Aquatic toxicity:

67-64-1 acetone

| | |
|----------|---------------------------|
| LC50/96h | 8,300 mg/l (fish) |
| EC50/48h | 18,500 mg/l (crustaceans) |
| EC50/96h | 7,200 mg/l (algae) |

123-86-4 n-butyl acetate

| | |
|----------|----------------|
| LC50/96h | 81 mg/l (fish) |
|----------|----------------|

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|----------|--------------------------------|
| LC50/96h | 134 mg/l (oncorhynchus mykiss) |
| EC50/48h | >500 mg/l (daphnia magna) |

1330-20-7 xylene

| | |
|----------|------------------------|
| LC50/96h | 15.7 mg/l (fish) |
| LC50/48h | 8.5 mg/l (crustaceans) |

64-17-5 ethanol

| | |
|----------|--------------------------|
| LC50/96h | 11,000 mg/l (fish) |
| LC50/48h | 5,012 mg/l (daphnia) |
| EC50/48h | 9,950 mg/l (crustaceans) |

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

| | |
|-----------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
| 15 01 10* | packaging containing residues of or contaminated by hazardous substances |
| 15 01 04 | metallic packaging |
| HP 3 | Flammable |
| HP 4 | Irritant - skin irritation and eye damage |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |

Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR



Class

2 5F Gases.

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

(Contd. of page 7)

· Label 2.1

· IMDG, IATA



· Class 2.1
 · Label 2.1

· 14.4 Packing group
 · ADR, IMDG, IATA not regulated

· 14.5 Environmental hazards: Not applicable.

· 14.6 Special precautions for user Warning: Gases.
 · Hazard identification number (Kemler code): -
 · EMS Number: F-D,S-U
 · Stowage Code SW1 Protected from sources of heat.
 SW22 For AEROSOLS with a maximum capacity of 1 litre:
 Category A. For AEROSOLS with a capacity above 1 litre:
 Category B. For WASTE AEROSOLS: Category C, Clear of living
 quarters.
 SG69 For AEROSOLS with a maximum capacity of 1 litre:
 Segregation as for class 9. Stow "separated from" class 1 except
 for division 1.4.
 For AEROSOLS with a capacity above 1 litre:
 Segregation as for the appropriate subdivision of class 2.
 For WASTE AEROSOLS:
 Segregation as for the appropriate subdivision of class 2.

· Segregation Code

· 14.7 Transport in bulk according to Annex II of Marpol
 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR
 · Limited quantities (LQ) 1L
 · Excepted quantities (EQ) Code: E0
 Not permitted as Excepted Quantity
 · Transport category 2
 · Tunnel restriction code D

· IMDG
 · Limited quantities (LQ) 1L
 · Excepted quantities (EQ) Code: E0
 Not permitted as Excepted Quantity

· UN "Model Regulation": UN 1950 AEROSOLS, 2.1

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H280 Contains gas under pressure; may explode if heated.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.

(Contd. on page 9)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2020

Version number 1.3

Revision: 28.09.2020

(Contd. of page 8)

· **Department issuing SDS:** Product Safety Department

· **Contact:** B. Treiber, b.treiber@c-kreul.de

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Sol. 2: Flammable solids – Category 2

Acute Tox. 4: Acute toxicity - dermal – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· * **Data compared to the previous version altered.**

GB