

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

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

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

- **1.1 Product identifier**
- Trade name: **KREUL Fixing Spray matt 150 ml**
- Article number: 812150
- **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 Dam. 1 H318 Causes serious eye damage.



Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin 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 GB CLP regulation.
- **Hazard pictograms**



- **Signal word** Danger

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

(Contd. of page 1)

· Hazard-determining components of labelling:

butan-1-ol
hydrocarbons, C6-C7
hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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.
P280 Wear eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
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:

EUH208 Contains n-butyl methacrylate. May produce an allergic reaction.

· 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 Mixtures

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

· Dangerous components:

| | | |
|--|---|-----------|
| CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-XXXX | dimethyl ether ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | 25-<50% |
| EC number: 921-024-6 Reg.nr.: 01-2119475514-35-XXXX | hydrocarbons, C6-C7 ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 | 12.5-<20% |
| CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38-XXXX | butan-1-ol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336 | 5-<10% |
| CAS: 64742-48-9 EINECS: 265-150-3 Index number: 649-327-00-6 Reg.nr.: 01-2119486659-16-XXXX | Naphtha (petroleum), hydrotreated heavy ⚠ Asp. Tox. 1, H304 | 5-<10% |
| EC number: 920-750-0 Reg.nr.: 01-2119473851-33-XXXX | hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336 | 5-<10% |
| CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1 | cyclohexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 | 2.5-<5% |
| EC number: 926-605-8 Reg.nr.: 01-2119473851-33-XXXX | hydrocarbons, C6-C7 ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336 | 2.5-<5% |
| CAS: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5 Reg.nr.: 01-2119463884-26-XXXX | methacrylic acid ⚠ Acute Tox. 3, H311; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 1 % | <0.5% |
| CAS: 97-88-1 EINECS: 202-615-1 Index number: 607-033-00-5 | n-butyl methacrylate ⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | <0.5% |
| CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0 | n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5 % | <0.5% |

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

(Contd. of page 2)

· **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:**

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

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

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

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**

No further relevant information available.

5 Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:** Mouth 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**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Use neutralising agent.

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**

Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

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:** Not required.

· **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

(Contd. of page 3)

- Keep container tightly sealed.
- Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** See chapter 1.2.

8 Exposure controls/personal protection

· 8.1 Control parameters

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

115-10-6 dimethyl ether

| | |
|-----|---|
| WEL | Short-term value: 958 mg/m ³ , 500 ppm |
| | Long-term value: 766 mg/m ³ , 400 ppm |

71-36-3 butan-1-ol

| | |
|-----|--|
| WEL | Short-term value: 154 mg/m ³ , 50 ppm |
| | Sk |

110-82-7 cyclohexane

| | |
|-----|--|
| WEL | Short-term value: 1050 mg/m ³ , 300 ppm |
| | Long-term value: 350 mg/m ³ , 100 ppm |

79-41-4 methacrylic acid

| | |
|-----|--|
| WEL | Short-term value: 143 mg/m ³ , 40 ppm |
| | Long-term value: 72 mg/m ³ , 20 ppm |

110-54-3 n-hexane

| | |
|-----|--|
| WEL | Long-term value: 72 mg/m ³ , 20 ppm |
|-----|--|

· **DNELs**

64742-48-9 Naphtha (petroleum), hydrotreated heavy

| | | |
|------------|-------------------------------------|--|
| Oral | long-term exposure-systemic effects | 300 mg/kg (general population) |
| Dermal | long-term exposure-systemic effects | 300 mg/kg bw/d (general population) 300 mg/kg bw/d (worker) |
| Inhalative | long-term exposure-systemic effects | 900 mg/m ³ (general population) 1,500 mg/m ³ (worker) |

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

· 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see item 7.

- **Individual protection measures, such as 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 and skin.

· **Respiratory protection:**

- Not necessary if room is well-ventilated.
- Use suitable respiratory protective device when high concentrations are present.
- Filter A2/P3

· **Hand protection**



Protective gloves

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 0.4 mm

Value for the permeation: Level \leq 2-4 h

(Contd. on page 5)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

· Eye/face protection

(Contd. of page 4)



Tightly sealed goggles

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

| | |
|--|-----------------------------------|
| · Physical state | Aerosol |
| · Colour: | Colourless |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | Not applicable, as aerosol. |
| · Flammability | Not applicable. |
| · Lower and upper explosion limit | |
| · Lower: | 3.3 Vol % |
| · Upper: | 26.2 Vol % |
| · Flash point: | Not applicable, as aerosol. |
| · Ignition temperature: | 240 °C |
| · Decomposition temperature: | Not determined. |
| · pH | Not determined. |
| · Viscosity: | |
| · Kinematic viscosity | Not determined. |
| · Dynamic: | Not determined. |
| · Solubility | |
| · water: | Not miscible or difficult to mix. |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Vapour pressure at 20 °C: | 4,000 hPa |
| · Density and/or relative density | |
| · Density at 20 °C: | 0.7 g/cm ³ |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |

· 9.2 Other information

| | |
|---|------------------------------|
| · Appearance: | |
| · Form: | Aerosol |
| · Important information on protection of health and environment, and on safety. | |
| · Auto-ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Not determined. |
| · Solvent content: | |
| · Solids content: | 1.0 % |
| · Change in condition | |
| · Evaporation rate | Not applicable. |

· Information with regard to physical hazard classes

| | |
|---|--|
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Void |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

10 Stability and reactivity

· 10.1 Reactivity No further relevant information available.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

(Contd. of page 5)

- **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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

| | | |
|--------|------|---------------------------|
| Oral | LD50 | >7,900–15,800 mg/kg (rat) |
| Dermal | LD50 | >100,000 mg/kg |

115-10-6 dimethyl ether

| | | |
|------------|---------|-----------------------------|
| Inhalative | LC50/4h | 308 mg/m ³ (rat) |
|------------|---------|-----------------------------|

hydrocarbons, C6-C7

| | | |
|------------|---------|-----------------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50/4h | >20 mg/m ³ (rat) |

71-36-3 butan-1-ol

| | | |
|------------|---------|-------------------------------|
| Oral | LD50 | 790 mg/kg (rat) |
| Dermal | LD50 | 3,400 mg/kg (rabbit) |
| Inhalative | LC50/4h | 8,000 mg/m ³ (rat) |

64742-48-9 Naphtha (petroleum), hydrotreated heavy

| | | |
|------------|---------|--------------------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rab) |
| Inhalative | LC50/4h | >4,951 mg/m ³ (rat) |

hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes

| | | |
|------------|---------|---------------------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50/4h | >20,000 mg/m ³ (rat) |

110-82-7 cyclohexane

| | | |
|------|------|--------------------|
| Oral | LD50 | 12,705 mg/kg (rat) |
|------|------|--------------------|

79-41-4 methacrylic acid

| | | |
|------------|---------|----------------------------|
| Oral | LD50 | 1,332 mg/kg (mouse) |
| Dermal | LD50 | 500 mg/kg (rabbit) |
| Inhalative | LC50/4h | 11 mg/m ³ (ATE) |

97-88-1 n-butyl methacrylate

| | | |
|------------|---------|-------------------------------|
| Oral | LD50 | 22,600 mg/kg (rat) |
| Dermal | LD50 | 11,300 mg/kg (rabbit) |
| Inhalative | LC50/4h | 4,910 mg/m ³ (rat) |

110-54-3 n-hexane

| | | |
|------------|---------|---------------------------------|
| Oral | LD50 | 25,000 mg/kg (rat) |
| Inhalative | LC50/4h | 169,000 mg/m ³ (rat) |

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

GB
(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

(Contd. of page 6)

12 Ecological information

12.1 Toxicity

Aquatic toxicity:

115-10-6 dimethyl ether

| | |
|----------|-----------------------------|
| LC50/96h | >4,000 mg/l (fish) |
| LC50/48h | >4,000 mg/l (daphnia magna) |
| EC50/96h | 155 mg/l (algae) |

hydrocarbons, C6-C7

| | |
|----------|---|
| LC50/96h | 11.4 mg/l (oncorhynchus mykiss) |
| EC50/48h | 3 mg/l (daphnia magna) |
| EC50/72h | 30 mg/l (pseudokirchneriella subcapitata) |

71-36-3 butan-1-ol

| | |
|----------|-------------------|
| LC50/96h | 1,376 mg/l (fish) |
|----------|-------------------|

hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes

| | |
|------|-----------------|
| EC50 | 50 mg/l (algae) |
| | 5 mg/l (fish) |

110-54-3 n-hexane

| | |
|----------|------------------|
| LC50/96h | 57.8 mg/l (fish) |
|----------|------------------|

- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**

· **Remark:** Toxic for fish

Additional ecological information:


General notes:

Do not allow product to reach ground water, water course or sewage system.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms

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.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA | <p style="text-align: center;">UN1950</p> |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | <p style="text-align: center;">1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (hydrocarbons, C6-C7, hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes), MARINE POLLUTANT AEROSOLS, flammable</p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR | |
|  | |
| <ul style="list-style-type: none"> · Class · Label | <p style="text-align: center;">2 5F Gases. 2.1</p> |

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

(Contd. of page 7)

· **IMDG**

· **Class** 2.1 Gases.
 · **Label** 2.1

· **IATA**

· **Class** 2.1 Gases.
 · **Label** 2.1

· **14.4 Packing group**

· **ADR, IMDG, IATA** not regulated

· **14.5 Environmental hazards:**

· **Marine pollutant:** Symbol (fish and tree)
 · **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user**

· **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.

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

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, ENVIRONMENTALLY HAZARDOUS

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
 E2 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57 -**
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.05.2022

Version number 1.2 (replaces version 1.1)

Revision: 16.05.2022

(Contd. of page 8)

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.
 H280 Contains gas under pressure; may explode if heated.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361f Suspected of damaging fertility.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.

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

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

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)
 DNEL: Derived No-Effect Level (GB REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Gas 1A: Flammable gases – Category 1A
 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
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 3: Acute toxicity – Category 3
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

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