

Diese Datei enthält die Sicherheitsdatenblätter zu allen Farbtönen, Sets und Displays der KREUL Chalky Spray. Sie enthält Bestandteile mit unterschiedlicher Kennzeichnung. Die Erstellung eines gemeinsamen Sicherheitsdatenblattes ist daher nicht möglich. Deshalb finden sich im Anhang die Sicherheitsdatenblätter zu den einzelnen Bestandteilen.

This file contains the safety data sheets for all colors, sets and displays for KREUL Chalky Spray. It contains components with different labels. It is therefore not possible to create a unique safety data sheet. The safety data sheets for the individual components can be found in the appendix.

Folgende Sets und Displays sind enthalten / Following sets and displays are included:

Artikelnummer / Article number -  
Handelsname / Trade name -

Bestandteile / Components:

-

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

Printing date 21.03.2023

Version number 3.3 (replaces version 3.2)

Revision: 21.03.2023

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

- **1.1 Product identifier**
- Trade name: **KREUL Chalky Spray Snow White 200 ml**
- Article number: 76351
- **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  
GERMANY  
Phone: + 49 (0) 9545/925 - 0  
Fax: + 49 (0) 9545/925 - 511  
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**



flame

Aerosol 2 H223-H229 Flammable aerosol. Pressurised container: May burst if heated.

- **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**



GHS02

- **Signal word** Warning
- **Hazard statements**  
H223-H229 Flammable aerosol. Pressurised container: May burst if heated.
- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read carefully and follow all instructions.
  - 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.
  - P271 Use only outdoors or in a well-ventilated area.
  - 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 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· vPvB: Not applicable.

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### 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	30-<50%
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; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	20-<30%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide ⚠ Carc. 2, H351	1-<10%
CAS: 121-44-8 EINECS: 204-469-4 Index number: 612-004-00-5	triethylamine ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	0.05-<0.3%
CAS: 55965-84-9 Index number: 613-167-00-5	5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) ⚠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	0.00025-<0.0015%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

#### · 4.1 Description of first aid measures

##### · 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.

##### · After skin contact:

Generally the product does not irritate the skin.  
Wash with water and acidic soap.  
If skin irritation continues, consult a doctor.

##### · After eye contact:

Remove contact lenses.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

##### · After swallowing:

Administer medicinal carbon.  
Rinse out mouth and then drink plenty of water.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.  
A person vomiting while laying on their back should be turned onto their side.

#### · 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:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:**

Water with full jet  
Water

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

During heating or in case of fire poisonous gases are produced.

#### · 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained respiratory protective device.

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· **Additional information** Cool endangered receptacles with water spray.

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### 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.  
 Mount respiratory protective device.  
 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

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: Not required.

##### · Further information about storage conditions:

Store receptacle in a well ventilated area.  
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.  
 Protect from frost.  
 Protect from heat and direct sunlight.  
 Keep container tightly sealed.

##### · Storage class: 2B

#### · 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 <sup>3</sup> , 500 ppm
	Long-term value: 766 mg/m <sup>3</sup> , 400 ppm

##### 64-17-5 ethanol

WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
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##### 121-44-8 triethylamine

WEL	Short-term value: 17 mg/m <sup>3</sup> , 4 ppm
	Long-term value: 8 mg/m <sup>3</sup> , 2 ppm
	Sk

##### · DNELs

##### 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)

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Inhalative	long-term exposure-systemic effects	343 mg/kg bw/d (worker) 114 mg/m <sup>3</sup> (general population) 950 mg/m <sup>3</sup> (worker)
<b>121-44-8 triethylamine</b>		
Dermal	chronic - systemic effect	12.1 mg/kg bw/d (Long term)
Inhalative	acute - systemic effect	12.6 mg/m <sup>3</sup> (Short Term)
	acute - local effect	12.6 mg/m <sup>3</sup> (Short Term)
	chronic - local effect	8.4 mg/m <sup>3</sup> (Long term)
	chronic - systemic effect	8.4 mg/m <sup>3</sup> (Long term)
<b>· PNECs</b>		
<b>64-17-5 ethanol</b>		
water		2.75 mg/l
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
<b>121-44-8 triethylamine</b>		
freshwater		0.11 mg/l
marine water		0.011 mg/l
sewage treatment plant (STP)		100 mg/l
freshwater sediment		1.575 mg/kg
marine sediment		0.158 mg/kg
soil		0.25 mg/kg

· **Ingredients with biological limit values:** -· **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:**

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

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.

· **Hand protection**

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

Value for the permeation: Level ≤ 8 h

Recommended thickness of the material: ≥ - mm

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

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.4 mm

Value for the permeation: Level ≤ 120 - 240 min

· **Eye/face protection**

Tightly sealed goggles

· **Body protection:** Protective work clothing

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### 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

· <b>General Information</b>	
· <b>Physical state</b>	Aerosol
· <b>Colour:</b>	According to product specification
· <b>Odour:</b>	Specific type
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	-25 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable, as aerosol.
· <b>Ignition temperature:</b>	240 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	~0.919 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

#### 9.2 Other information

· <b>Appearance:</b>	
· <b>Form:</b>	Aerosol
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Solvent content:</b>	
· <b>VOC (EC)</b>	53.82 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.

#### Information with regard to physical hazard classes

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

### 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**  
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.
- **10.5 Incompatible materials:** Keep away from oxidizing agents, strong alkaline and acidic materials.

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- **10.6 Hazardous decomposition products:**  
In case of fire, the following can be released:  
Carbon monoxide and carbon dioxide

### 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:**

#### 115-10-6 dimethyl ether

Inhalative	LC50/4h	308 mg/m <sup>3</sup> (rat)
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#### 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (rat) (OECD 403)
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Dermal	LD50	>2,000 mg/kg (rat)
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		12,800 mg/kg (rabbit)
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Inhalative	LC50/4h	124.7 mg/m <sup>3</sup> (rat) (OECD 403)
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#### 13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
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Dermal	LD50	>10,000 mg/kg (rabbit)
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Inhalative	LC50/4h	>6.82 mg/m <sup>3</sup> (rat)
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#### 121-44-8 triethylamine

Oral	LD50	730 mg/kg (rat) (OECD 401)
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Dermal	LD50	580 mg/kg (rabbit) (OECD 402)
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Inhalative	LC50/4h	3 mg/m <sup>3</sup> (ATE)
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#### 55965-84-9 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Oral	LD50	64 mg/kg (rat)
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Dermal	LD50	87 mg/kg (rab)
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Inhalative	LC50/4h	0.05 mg/m <sup>3</sup> (ATE)
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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **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.

### 12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

#### 115-10-6 dimethyl ether

LC50/96h	>4,000 mg/l (fish)
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LC50/48h	>4,000 mg/l (daphnia magna)
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EC50/96h	155 mg/l (algae)
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#### 64-17-5 ethanol

LC50/96h	14,200 mg/l (pimephales promelas) (US EPA method E03-0)
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	13,000 mg/l (oncorhynchus mykiss)
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LC50/48h	5,012 mg/l (ceriodaphnia dubia) (ASTM E729-80)
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	12,340 mg/l (daphnia magna)
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EC50/48h	12,900 mg/l (algae)
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	>10,000 mg/l (ceriodaphnia dubia) (DIN 38412 Teil 11)
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	9,950 mg/l (crustaceans)
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EC50/96h	12,900 mg/l (pimephales promelas) (US EPA method E03-0)
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NOEC	2 mg/l /10d (ceriodaphnia dubia) (ECHA)
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	250 mg/l /120h (danio rerio) (OECD 212)
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ErC50	275 mg/l /72h (algae) (OECD 201)
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ErCx 10%	11.5 mg/l /3d (algae) (OECD 201)
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LC50	1,806 mg/l /10d (ceriodaphnia dubia) (ECHA) 454 mg/l /9d (daphnia magna) (ECHA)
<b>13463-67-7 titanium dioxide</b>	
EC50	>100 mg/l (pseudokirchneriella subcapitata) (OECD 201) >10,000 mg/l (sceletonema costatum) (ISO 10253)
NOEC	>100,000 mg/l (hyalella azteca) (ASTM 1706)
LC50	>10,000 mg/l (acartia tonsa) (ISO 14669 (1999) ISO 5667-16 (1998)) >1,000 mg/l (daphnia magna) (OECD 202) >1,000 mg/l (pimephales promelas) (EPA-540/9-85-006)
<b>121-44-8 triethylamine</b>	
LC50/96h	24 mg/l (oryzias latipes) (OECD 203)
EC50/48h	200 mg/l (daphnia magna) (OECD 202)
EC50/72h	8 mg/l (pseudokirchneriella subcapitata) (OECD 201)
<b>55965-84-9 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b>	
LC50/96h	0.22 mg/l (oncorhynchus mykiss) (RAC)
EC50/48h	0.1 mg/l (daphnia magna)
EC50/72h	0.048 mg/l (pseudokirchneriella subcapitata)
NOEC	0.004 mg/l (daphnia magna) (OECD 211)
ErC50	0.0049 mg/l /120h (sceletonema costatum)
NOEC/21d	0.004 mg/l (daphnia)
NOEC/48d	0.00064 mg/l (sceletonema costatum)
NOEC/72h	0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)
NOEC/28d	0.098 mg/l (oncorhynchus mykiss) (OECD 210)

**12.2 Persistence and degradability****121-44-8 triethylamine**

Biodegradability | 80.3 % /29d (OECD 301 B)

· **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****Additional ecological information:****General notes:**

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

**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****14.1 UN number or ID number**· **ADR, IMDG, IATA** UN1950**14.2 UN proper shipping name**

· <b>ADR</b>	1950 AEROSOLS
· <b>IMDG</b>	AEROSOLS
· <b>IATA</b>	AEROSOLS, flammable

**14.3 Transport hazard class(es)****ADR**· **Class** 2 5F Gases.

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· Label 2.1

· IMDG, IATA



· Class 2.1 Gases.  
· 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.  
· Segregation Code 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

## 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
- 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.  
H280 Contains gas under pressure; may explode if heated.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H310 Fatal in contact with skin.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 21.03.2023

Version number 3.3 (replaces version 3.2)

Revision: 21.03.2023

**Trade name: KREUL Chalky Spray Snow White 200 ml**

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H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.  
 H331 Toxic if inhaled.  
 H351 Suspected of causing cancer.  
 H400 Very toxic to aquatic life.  
 H410 Very 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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 2: Aerosols – Category 2

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

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1A: Skin sensitisation – Category 1A

Carc. 2: Carcinogenicity – Category 2

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

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

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

Printing date 20.03.2023

Version number 3.3 (replaces version 3.2)

Revision: 20.03.2023

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

- **1.1 Product identifier**
- **Trade name:** KREUL Chalky Spray White Cotton 200 ml  
KREUL Chalky Spray Mademoiselle Rosé 200 ml  
KREUL Chalky Spray Vintage Blue 200 ml  
KREUL Chalky Spray Sir Petrol 200 ml  
KREUL Chalky Spray Volcanic Gray 200 ml
- **Article number:** 76352, 76353, 76354, 76355, 76356
- **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  
GERMANY  
Phone: + 49 (0) 9545/925 - 0  
Fax: + 49 (0) 9545/925 - 511  
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**



flame

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

- **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**



GHS02

- **Signal word** Danger
- **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read carefully and follow all instructions.
  - 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.
  - P271 Use only outdoors or in a well-ventilated area.
  - 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 1,2-benzisothiazol-3(2H)-one, 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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**Trade name: KREUL Chalky Spray White Cotton 200 ml**  
**KREUL Chalky Spray Mademoiselle Rosé 200 ml**  
**KREUL Chalky Spray Vintage Blue 200 ml**  
**KREUL Chalky Spray Sir Petrol 200 ml**  
**KREUL Chalky Spray Volcanic Gray 200 ml**

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- **2.3 Other hazards**
- **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	30-<50%
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; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	20-<30%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide ⚠ Carc. 2, H351	1-<10%
CAS: 121-44-8 EINECS: 204-469-4 Index number: 612-004-00-5	triethylamine ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	0.05-<0.3%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60-XXXX	1,2-benzisothiazol-3(2H)-one ⚠ Acute Tox. 1, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	0.005-<0.05%
CAS: 55965-84-9 Index number: 613-167-00-5	5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) ⚠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	0.00025-<0.0015%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

- **4.1 Description of first aid measures**
- **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.
- **After skin contact:**  
Generally the product does not irritate the skin.  
Wash with water and acidic soap.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Remove contact lenses.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Administer medicinal carbon.  
Rinse out mouth and then drink plenty of water.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.  
A person vomiting while laying on their back should be turned onto their side.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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 KREUL Chalky Spray Mademoiselle Rosé 200 ml  
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 KREUL Chalky Spray Sir Petrol 200 ml  
 KREUL Chalky Spray Volcanic Gray 200 ml

- **4.3 Indication of any immediate medical attention and special treatment needed**  
 If swallowed or in case of vomiting, danger of entering the lungs.

(Contd. of page 2)

## 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
 During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

## 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.  
 Mount respiratory protective device.  
 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**  
 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:** Not required.
- **Further information about storage conditions:**  
 Store receptacle in a well ventilated area.  
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.  
 Protect from frost.  
 Protect from heat and direct sunlight.  
 Keep container tightly sealed.
- **Storage class:** 2B
- **7.3 Specific end use(s)** See chapter 1.2.

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 KREUL Chalky Spray Volcanic Gray 200 ml

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### 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 <sup>3</sup> , 500 ppm
	Long-term value: 766 mg/m <sup>3</sup> , 400 ppm

###### 64-17-5 ethanol

WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
-----	--

###### 121-44-8 triethylamine

WEL	Short-term value: 17 mg/m <sup>3</sup> , 4 ppm
	Long-term value: 8 mg/m <sup>3</sup> , 2 ppm
Sk	

#### · DNELs

###### 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 <sup>3</sup> (general population) 950 mg/m <sup>3</sup> (worker)

###### 121-44-8 triethylamine

Dermal	chronic - systemic effect	12.1 mg/kg bw/d (Long term)
Inhalative	acute - systemic effect	12.6 mg/m <sup>3</sup> (Short Term)
	acute - local effect	12.6 mg/m <sup>3</sup> (Short Term)
	chronic - local effect	8.4 mg/m <sup>3</sup> (Long term)
	chronic - systemic effect	8.4 mg/m <sup>3</sup> (Long term)

#### · PNECs

###### 64-17-5 ethanol

water	2.75 mg/l
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

###### 121-44-8 triethylamine

freshwater	0.11 mg/l
marine water	0.011 mg/l
sewage treatment plant (STP)	100 mg/l
freshwater sediment	1.575 mg/kg
marine sediment	0.158 mg/kg
soil	0.25 mg/kg

#### · Ingredients with biological limit values: -

#### · 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:

Do not eat, drink, smoke or sniff while working.  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.  
 Do not inhale gases / fumes / aerosols.

##### · Respiratory protection:

Not necessary if room is well-ventilated.  
 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.

##### · Hand protection

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

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- **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

Value for the permeation: Level  $\leq$  8 h

Recommended thickness of the material:  $\geq$  - mm

- **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  $\leq$  120 - 240 min

- **Eye/face 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**

- **Physical state**

Aerosol

- **Colour:**

According to product specification

- **Odour:**

Specific type

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

-25 °C

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

Not applicable, as aerosol.

- **Ignition temperature:**

240 °C

- **Decomposition temperature:**

Not determined.

- **pH at 20 °C**

9.5–10

- **Viscosity:**

- **Kinematic viscosity**

Not determined.

- **Dynamic:**

Not determined.

- **Solubility**

- **water:**

Fully miscible.

- **Partition coefficient n-octanol/water (log value)**

Not determined.

- **Vapour pressure:**

Not determined.

- **Density and/or relative density**

- **Density at 20 °C:**

0.853 g/cm<sup>3</sup>

- **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:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Solvent content:**

- **VOC (EC)**

59.72 %

- **Change in condition**

- **Evaporation rate**

Not applicable.

- **Information with regard to physical hazard classes**

- **Explosives**

Void

- **Flammable gases**

Void

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 KREUL Chalky Spray Volcanic Gray 200 ml

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

## 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**  
 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.
- **10.5 Incompatible materials:** Keep away from oxidizing agents, strong alkaline and acidic materials.
- **10.6 Hazardous decomposition products:**  
 In case of fire, the following can be released:  
 Carbon monoxide and carbon dioxide

## 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:

#### 115-10-6 dimethyl ether

Inhalative	LC50/4h	308 mg/m <sup>3</sup> (rat)
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#### 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (rat) (OECD 403)
Dermal	LD50	>2,000 mg/kg (rat)
		12,800 mg/kg (rabbit)
Inhalative	LC50/4h	124.7 mg/m <sup>3</sup> (rat) (OECD 403)

#### 13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4h	>6.82 mg/m <sup>3</sup> (rat)

#### 121-44-8 triethylamine

Oral	LD50	730 mg/kg (rat) (OECD 401)
Dermal	LD50	580 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	3 mg/m <sup>3</sup> (ATE)

#### 2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	490 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4h	0.05 mg/m <sup>3</sup> (ATE)

#### 55965-84-9 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Oral	LD50	64 mg/kg (rat)
Dermal	LD50	87 mg/kg (rab)
Inhalative	LC50/4h	0.05 mg/m <sup>3</sup> (ATE)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **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.

## 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)

**64-17-5 ethanol**

LC50/96h	14,200 mg/l (pimephales promelas) (US EPA method E03-0) 13,000 mg/l (oncorhynchus mykiss)
LC50/48h	5,012 mg/l (ceriodaphnia dubia) (ASTM E729-80) 12,340 mg/l (daphnia magna)
EC50/48h	12,900 mg/l (algae) >10,000 mg/l (ceriodaphnia dubia) (DIN 38412 Teil 11) 9,950 mg/l (crustaceans)
EC50/96h	12,900 mg/l (pimephales promelas) (US EPA method E03-0)
NOEC	2 mg/l /10d (ceriodaphnia dubia) (ECHA) 250 mg/l /120h (danio rerio) (OECD 212)
ErC50	275 mg/l /72h (algae) (OECD 201)
ErCx 10%	11.5 mg/l /3d (algae) (OECD 201)
LC50	1,806 mg/l /10d (ceriodaphnia dubia) (ECHA) 454 mg/l /9d (daphnia magna) (ECHA)

**13463-67-7 titanium dioxide**

EC50	>100 mg/l (pseudokirchneriella subcapitata) (OECD 201) >10,000 mg/l (skeletonema costatum) (ISO 10253)
NOEC	>100,000 mg/l (hyalella azteca) (ASTM 1706)
LC50	>10,000 mg/l (acartia tonsa) (ISO 14669 (1999) ISO 5667-16 (1998)) >1,000 mg/l (daphnia magna) (OECD 202) >1,000 mg/l (pimephales promelas) (EPA-540/9-85-006)

**121-44-8 triethylamine**

LC50/96h	24 mg/l (oryzias latipes) (OECD 203)
EC50/48h	200 mg/l (daphnia magna) (OECD 202)
EC50/72h	8 mg/l (pseudokirchneriella subcapitata) (OECD 201)

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

LC50/96h	1.6 mg/l (oncorhynchus mykiss)
EC50/48h	2.94 mg/l (daphnia magna)
EC50/72h	0.11 mg/l (selenastrum capricornutum)
EC10/72h	0.04 mg/l (selenastrum capricornutum)
ErC50/72h	0.11 mg/l (pseudokirchneriella subcapitata)
NOEC/21d	1.2 mg/l (daphnia)
NOEC/72h	0.027 mg/l (skeletonema costatum)
NOEC/28d	0.21 mg/l (oncorhynchus mykiss)

**55965-84-9 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**

LC50/96h	0.22 mg/l (oncorhynchus mykiss) (RAC)
EC50/48h	0.1 mg/l (daphnia magna)

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 20.03.2023

Version number 3.3 (replaces version 3.2)

Revision: 20.03.2023

Trade name: **KREUL Chalky Spray White Cotton 200 ml**  
**KREUL Chalky Spray Mademoiselle Rosé 200 ml**  
**KREUL Chalky Spray Vintage Blue 200 ml**  
**KREUL Chalky Spray Sir Petrol 200 ml**  
**KREUL Chalky Spray Volcanic Gray 200 ml**

(Contd. of page 7)

EC50/72h	0.048 mg/l (pseudokirchneriella subcapitata)
NOEC	0.004 mg/l (daphnia magna) (OECD 211)
ErC50	0.0049 mg/l /120h (skeletonema costatum)
NOEC/21d	0.004 mg/l (daphnia)
NOEC/48d	0.00064 mg/l (skeletonema costatum)
NOEC/72h	0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)
NOEC/28d	0.098 mg/l (oncorhynchus mykiss) (OECD 210)

### 12.2 Persistence and degradability

#### 121-44-8 triethylamine

Biodegradability 80.3 % /29d (OECD 301 B)

- **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**
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 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

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA**

UN1950

- **14.2 UN proper shipping name**

- **ADR**
- **IMDG**
- **IATA**

1950 AEROSOLS  
 AEROSOLS  
 AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class** 2 5F Gases.
- **Label** 2.1

- **IMDG, IATA**



- **Class** 2.1 Gases.
- **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.

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<ul style="list-style-type: none"> <li>· <b>Segregation Code</b></li> </ul>	<p>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.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	1L Code: E0 Not permitted as Excepted Quantity
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	2 D
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	1L Code: E0 Not permitted as Excepted Quantity
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	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
- **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.  
 H280 Contains gas under pressure; may explode if heated.  
 H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H310 Fatal in contact with skin.  
 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.  
 H330 Fatal if inhaled.  
 H331 Toxic if inhaled.  
 H351 Suspected of causing cancer.  
 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

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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 (UK REACH)  
 PNEC: Predicted No-Effect Concentration (UK REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 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  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 2: Acute toxicity – Category 2  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 1: Acute toxicity – Category 1  
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
 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  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 Carc. 2: Carcinogenicity – Category 2  
 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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