

Diese Datei enthält die Sicherheitsdatenblätter zu allen Farbtönen, Sets und Displays der KREUL Magic Marble Marmorierfarbe. 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 Magic Marble Marbling paint. 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 **73600**
Handelsname / Trade name KREUL Magic Marble Marmorierfarben Set Grundfarben 6 x 20 ml /
KREUL Magic Marble Marbling paint Basic colors 20 ml Set of 6

Bestandteile / Components:

KREUL Magic Marble Marmorierfarbe Weiß 20 ml / KREUL Magic Marble Marbling paint White 20 ml
KREUL Magic Marble Marmorierfarbe Sonnengelb 20 ml / KREUL Magic Marble Marbling paint Sun Yellow 20 ml
KREUL Magic Marble Marmorierfarbe Rot 20 ml / KREUL Magic Marble Marbling paint Red 20 ml
KREUL Magic Marble Marmorierfarbe Blau 20 ml / KREUL Magic Marble Marbling paint Blue 20 ml
KREUL Magic Marble Marmorierfarbe Grün 20 ml / KREUL Magic Marble Marbling paint Green 20 ml
KREUL Magic Marble Marmorierfarbe Schwarz 20 ml / KREUL Magic Marble Marbling paint Black 20 ml

Artikelnummer / Article number **73610**
Handelsname / Trade name KREUL Magic Marble Marmorierfarben Set Metallic 6 x 20 ml /
KREUL Magic Marble Marbling paint Metallic colors 20 ml Set of 6

Bestandteile / Components:

KREUL Magic Marble Marmorierfarbe Silber 20 ml / KREUL Magic Marble Marbling paint Silver 20 ml
KREUL Magic Marble Marmorierfarbe Gold 20 ml / KREUL Magic Marble Marbling paint Gold 20 ml
KREUL Magic Marble Marmorierfarbe Metallic-Rot 20 ml / KREUL Magic Marble Marbling paint Metallic-Red 20 ml
KREUL Magic Marble Marmorierfarbe Metallic-Violett 20 ml / KREUL Magic Marble Marbling paint Metallic-Violet 20 ml
KREUL Magic Marble Marmorierfarbe Metallic-Blau 20 ml / KREUL Magic Marble Marbling paint Metallic-Blue 20 ml
KREUL Magic Marble Marmorierfarbe Metallic-Grün 20 ml / KREUL Magic Marble Marbling paint Metallic-Green 20 ml

Artikelnummer / Article number **73613**
Handelsname / Trade name KREUL Magic Marble Marmorierfarben Set Chalky Living 6 x 20 ml /
KREUL Magic Marble Marbling paint Chalky Living 20 ml Set of 6

Bestandteile / Components:

KREUL Magic Marble Marmorierfarbe Farblos 20 ml / KREUL Magic Marble Marbling paint Colorless 20 ml
KREUL Magic Marble Marmorierfarbe Schwarz 20 ml / KREUL Magic Marble Marbling paint Black 20 ml
KREUL Magic Marble Marmorierfarbe Noble Nougat matt 20 ml / KREUL Magic Marble Marbling paint Noble Nougat matt 20 ml
KREUL Magic Marble Marmorierfarbe Mademoiselle Rosé matt 20 ml / KREUL Magic Marble Marbling paint Mademoiselle Rosé matt 20 ml
KREUL Magic Marble Marmorierfarbe Sir Petrol matt 20 ml / KREUL Magic Marble Marbling paint Sir Petrol matt 20 ml
KREUL Magic Marble Marmorierfarbe Volcanic Gray matt 20 ml / KREUL Magic Marble Marbling paint Volcanic Gray matt 20 ml

Artikelnummer / Article number **73614**
Handelsname / Trade name KREUL Magic Marble Marmorierfarben Set Love Neon! 6 x 20 ml /
KREUL Magic Marble Marbling paint Love Neon! 20 ml Set of 6

Bestandteile / Components:

KREUL Magic Marble Marmorierfarbe Weiß 20 ml / KREUL Magic Marble Marbling paint White 20 ml
KREUL Magic Marble Marmorierfarbe Mademoiselle Rosé matt 20 ml / KREUL Magic Marble Marbling paint Mademoiselle Rosé matt 20 ml
KREUL Magic Marble Marmorierfarbe Neongelb 20 ml / KREUL Magic Marble Marbling paint Neon Yellow 20 ml
KREUL Magic Marble Marmorierfarbe Volcanic Gray matt 20 ml / KREUL Magic Marble Marbling paint Volcanic Gray matt 20 ml
KREUL Magic Marble Marmorierfarbe Neonorange 20 ml / KREUL Magic Marble Marbling paint Neon Orange 20 ml
KREUL Magic Marble Marmorierfarbe Neopink 20 ml / KREUL Magic Marble Marbling paint Neon Pink 20 ml

Artikelnummer / Article number **73703**
Handelsname / Trade name KREUL Magic Marble Marmorierfarben Set Happy Easter /
KREUL Magic Marble Marbling paint Set Happy Easter

Bestandteile / Components:

KREUL Magic Marble Marmorierfarbe Hellblau 20 ml / KREUL Magic Marble Marbling paint Light Blue 20 ml
KREUL Magic Marble Marmorierfarbe Zitron 20 ml / KREUL Magic Marble Marbling paint Lemon 20 ml
KREUL Magic Marble Marmorierfarbe Orange 20 ml / KREUL Magic Marble Marbling paint Orange 20 ml
KREUL Magic Marble Marmorierfarbe Hellgrün 20 ml / KREUL Magic Marble Marbling paint Light Green 20 ml

Artikelnummer / Article number **732091**
Handelsname / Trade name KREUL Magic Marble Marmorierfarben Thekendisplay /
KREUL Magic Marble Marbling paint counter sales display

Bestandteile / Components:

KREUL Magic Marble Marmorierfarbe Sonnengelb 20 ml / KREUL Magic Marble Marbling paint Sun Yellow 20 ml
KREUL Magic Marble Marmorierfarbe Orange 20 ml / KREUL Magic Marble Marbling paint Orange 20 ml
KREUL Magic Marble Marmorierfarbe Rot 20 ml / KREUL Magic Marble Marbling paint Red 20 ml
KREUL Magic Marble Marmorierfarbe Magenta 20 ml / KREUL Magic Marble Marbling paint Magenta 20 ml
KREUL Magic Marble Marmorierfarbe Violett 20 ml / KREUL Magic Marble Marbling paint Violet 20 ml
KREUL Magic Marble Marmorierfarbe Blau 20 ml / KREUL Magic Marble Marbling paint Blue 20 ml
KREUL Magic Marble Marmorierfarbe Hellgrün 20 ml / KREUL Magic Marble Marbling paint Light Green 20 ml
KREUL Magic Marble Marmorierfarbe Grün 20 ml / KREUL Magic Marble Marbling paint Green 20 ml
KREUL Magic Marble Marmorierfarbe Neonpink 20 ml / KREUL Magic Marble Marbling paint Neon Pink 20 ml
KREUL Magic Marble Marmorierfarbe Silber 20 ml / KREUL Magic Marble Marbling paint Silver 20 ml
KREUL Magic Marble Marmorierfarbe Gold 20 ml / KREUL Magic Marble Marbling paint Gold 20 ml
KREUL Magic Marble Marmorierfarbe Kupfer 20 ml / KREUL Magic Marble Marbling paint Copper 20 ml
KREUL Magic Marble Marmorierfarbe Glitzer-Silber 20 ml / KREUL Magic Marble Marbling paint Glitter-Silver 20 ml
KREUL Magic Marble Marmorierfarbe Glitzer-Gold 20 ml / KREUL Magic Marble Marbling paint Glitter-Gold 20 ml
KREUL Magic Marble Marmorierfarbe Mademoiselle Rosé matt 20 ml / KREUL Magic Marble Marbling paint Mademoiselle Rosé matt 20 ml
KREUL Magic Marble Marmorierfarbe Sir Petrol matt 20 ml / KREUL Magic Marble Marbling paint Sir Petrol matt 20 ml
KREUL Magic Marble Marmorierfarbe Noble Nougat matt 20 ml / KREUL Magic Marble Marbling paint Noble Nougat matt 20 ml
KREUL Magic Marble Marmorierfarbe Volcanic Gray matt 20 ml / KREUL Magic Marble Marbling paint Volcanic Gray matt 20 ml

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

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

· **1.1 Product identifier**

· **Trade name:** **KREUL Magic Marble Marbling paint White, Rose, Light Blue, Silver, Gold, Metallic-Red, Metallic-Violet, Metallic-Blue, Metallic-Green, Neon Pink, Mademoiselle Rosé matt, Sir Petrol matt, Noble Nougat matt, Volcanic Gray matt 20 ml**

· **Article number:** 73201, 73206, 73210, 73219, 73220, 73226, 73228, 73229, 73230, 73233, 73234, 73235, 73236, 73237

· **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**

Paint

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**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

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**



GHS02



GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**

1-methoxy-2-propanol

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

2-methoxy-1-methylethyl acetate

· **Hazard statements**

H226 Flammable liquid and vapour.

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.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 Use only outdoors or in a well-ventilated area.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH208 Contains cobalt(II) 2-ethylhexanoate. 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**

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: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	25-<50%
CAS: 64742-48-9 EC number: 919-857-5 Reg.nr.: 01-2119463258-33-XXXX	Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	10-<20%
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; ⚠ STOT SE 3, H336	5-<10%
EC number: 918-481-9 Reg.nr.: 01-2119457273-39-XXXX	Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, <2% aromatics ⚠ Asp. Tox. 1, H304	5-<10%
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-<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; consult doctor in case of complaints.

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.

· **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, 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**

In case of fire, the following can be released:

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

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- **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.
- Mount respiratory protective device.

· 6.2 Environmental precautions:

- Keep contaminated washing water and dispose of appropriately.
- In case of seepage into the ground inform responsible authorities.
- Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.
- Prevent formation of aerosols.
- Keep away from heat and direct sunlight.
- Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

- Keep ignition sources away - Do not smoke.
- Fumes can combine with air to form an explosive mixture.
- Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· Information about storage in one common storage facility:

- Do not store together with oxidising and acidic materials.
- Do not store together with alkalis (caustic solutions).

· Further information about storage conditions:

- Keep container tightly sealed.
- Store receptacle in a well ventilated area.

· Storage class: 3

· 7.3 Specific end use(s) No further relevant information available.

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:

107-98-2 1-methoxy-2-propanol

WEL	Short-term value: 560 mg/m ³ , 150 ppm
	Long-term value: 375 mg/m ³ , 100 ppm
	Sk

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

13463-67-7 titanium dioxide

WEL	Long-term value: 10 [*] 4 ^{**} mg/m ³
	*total inhalable **respirable

· DNELs

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

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)

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Inhalative	long-term exposure-systemic effects	900 mg/m ³ (general population) 1,500 mg/m ³ (worker)
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)
107-98-2 1-methoxy-2-propanol		
Oral	long-term exposure-systemic effects	33 mg/kg (general population)
Dermal	long-term exposure-systemic effects	183 mg/kg bw/d (general population) 78 mg/kg bw/d (worker)
Inhalative	long-term exposure-systemic effects	43.9 mg/m ³ (general population) 369 mg/m ³ (worker)
PNECs		
107-98-2 1-methoxy-2-propanol		
water		100 mg/l
freshwater		10 mg/l
marine water		1 mg/l
sewage treatment plant (STP)		100 mg/l
freshwater sediment		52.3 mg/kg
marine sediment		5.2 mg/kg
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

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

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

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device when high concentrations are present.

· **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:**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.38 mm

Value for the permeation: Level ≤ 4 h

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

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.3 mm

Value for the permeation: Level $\leq 10 - 30$ min

· **Eye protection:**



Tightly sealed goggles

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· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Fluid
· 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:	Undetermined.

· **Flash point:** 25 °C· **Flammability (solid, gas):** Not applicable.· **Ignition temperature:** >200 °C· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Product is not selfigniting.· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

· Lower:	0.6 Vol %
· Upper:	13.8 Vol %

· **Vapour pressure:** Not determined.· **Density at 20 °C:** 0.9–1.1 g/cm³· **Relative density:** Not determined.· **Vapour density:** Not determined.· **Evaporation rate:** Not determined.

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:** Not determined.

· Viscosity:

· Dynamic:	Not determined.
· Kinematic at 40 °C:	>20.5 mm ² /s

· Solvent content:

· Organic solvents:	65-80 %
· VOC (EC)	67.42–77.69 %

· **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:** 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 toxicological effects

· **Acute toxicity:** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

107-98-2 1-methoxy-2-propanol

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

Oral	LD50	>5,000 mg/kg (rat)
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Dermal	LD50	>3,000 mg/kg (rab)
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)
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 ³ (rat)

- **Primary irritant effect:**

- **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.
- **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.

12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

LC50/48h	>1,000 mg/l (oncorhynchus mykiss)
EC50/48h	>1,000 mg/l (daphnia magna)
EC50/72h	>1,000 mg/l (pseudokirchneriella subcapitata)

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

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

- **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:**
Danger to drinking water if even extremely small quantities leak into the ground.
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- **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 07	glass packaging
HP 3	Flammable
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** UN1263
- **14.2 UN proper shipping name**
- **ADR** 1263 PAINT

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· IMDG, IATA	PAINT
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-E
· Stowage Category	A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III

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 P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 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

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer. Route of exposure: Inhalation.

· 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

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vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1

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

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

- **1.1 Product identifier**
- **Trade name:** KREUL Magic Marble Marbling paint Lemon, Sun Yellow, Orange, Red, Zinia, Magenta, Violet, Blue, Dark Blue, Turquoise, Light Green, Green, Black, Copper, Colorless, Glitter-Silver, Glitter-Gold, Neon Yellow, Neon Orange 20 ml
- **Article number:**
73202, 73203, 73204, 73205, 73207, 73208, 73209, 73211, 73212, 73213, 73214, 73215, 73218, 73221, 73222, 73223, 73224, 73231, 73232
- **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**
Paint
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**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

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**



GHS02 GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
1-methoxy-2-propanol
Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics
2-methoxy-1-methylethyl acetate
- **Hazard statements**
H226 Flammable liquid and vapour.
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.

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- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P271 Use only outdoors or in a well-ventilated area.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

EUH208 Contains cobalt(II) 2-ethylhexanoate. 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 Chemical characterisation: Mixtures**

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

- **Dangerous components:**

CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	25- $<$ 50%
CAS: 64742-48-9 EC number: 919-857-5 Reg.nr.: 01-2119463258-33-XXXX	Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, $<$ 2% aromatics ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	10- $<$ 20%
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; ⚠ STOT SE 3, H336	5- $<$ 10%
EC number: 918-481-9 Reg.nr.: 01-2119457273-39-XXXX	Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, $<$ 2% aromatics ⚠ Asp. Tox. 1, H304	5- $<$ 10%

- **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; consult doctor in case of complaints.

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.

- **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, 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**

In case of fire, the following can be released:

Carbon monoxide (CO)

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.

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· **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.
 Mount respiratory protective device.

· **6.2 Environmental precautions:**

Keep contaminated washing water and dispose of appropriately.
 In case of seepage into the ground inform responsible authorities.
 Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 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:**

Fumes can combine with air to form an explosive mixture.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:**

Do not store together with oxidising and acidic materials.
 Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:**

Store receptacle in a well ventilated area.
 Keep container tightly sealed.

· **7.3 Specific end use(s)** See chapter 1.2.

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:**

107-98-2 1-methoxy-2-propanol

WEL	Short-term value: 560 mg/m ³ , 150 ppm
	Long-term value: 375 mg/m ³ , 100 ppm
Sk	

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	

· **DNELs**

107-98-2 1-methoxy-2-propanol

Oral	long-term exposure-systemic effects	33 mg/kg (general population)
Dermal	long-term exposure-systemic effects	183 mg/kg bw/d (general population)
		78 mg/kg bw/d (worker)
Inhalative	long-term exposure-systemic effects	43.9 mg/m ³ (general population)
		369 mg/m ³ (worker)

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

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)

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Inhalative	long-term exposure-systemic effects	900 mg/m ³ (general population) 1,500 mg/m ³ (worker)
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)

· **PNECs****107-98-2 1-methoxy-2-propanol**

water	100 mg/l
freshwater	10 mg/l
marine water	1 mg/l
sewage treatment plant (STP)	100 mg/l
freshwater sediment	52.3 mg/kg
marine sediment	5.2 mg/kg

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

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **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.

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device when high concentrations are present.

· **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:**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.38 mmValue for the permeation: Level ≤ 4 h· **As protection from splashes gloves made of the following materials are suitable:**

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.3 mmValue for the permeation: Level $\leq 10 - 30$ min· **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:** Fluid

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· 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:	Undetermined.
· Flash point:	25 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	>200 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	0.6 Vol %
Upper:	13.8 Vol %
· Vapour pressure:	Not determined.
· Density at 20 °C:	0.9–1.1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 40 °C:	>20.5 mm ² /s
· Solvent content:	
VOC (EC)	67.42–77.69 %
· 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:** 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 toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

107-98-2 1-methoxy-2-propanol		
Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
64742-48-9 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rab)
Inhalative	LC50/4h	>4,951 mg/m ³ (rat)
Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, <2% aromatics		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rab)
Inhalative	LC50/4h	>4,951 mg/m ³ (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (rat)

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Dermal	LD50	>5,000 mg/kg (rab)
Inhalative	LC50/4h	>10,000 mg/m ³ (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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.

12 Ecological information

12.1 Toxicity

· Aquatic toxicity:

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

LC50/48h	>1,000 mg/l (oncorhynchus mykiss)
EC50/48h	>1,000 mg/l (daphnia magna)
EC50/72h	>1,000 mg/l (pseudokirchneriella subcapitata)

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

LC50/96h	100–180 mg/l (oncorhynchus mykiss)
EC50/48h	>500 mg/l (daphnia magna)

- **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 product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
- **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 07	glass packaging
HP3	Flammable
HP5	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** UN1263
- **14.2 UN proper shipping name**
- **ADR** 1263 PAINT
- **IMDG, IATA** PAINT

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14.3 Transport hazard class(es)

· ADR, IMDG, IATA



· Class 3 Flammable liquids.
· Label 3

14.4 Packing group

· ADR, IMDG, IATA III

· 14.5 Environmental hazards: Not applicable.

· 14.6 Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code): 30

· EMS Number: F-E,S-E

· Stowage Category A

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

Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· Transport category 3

· Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 1263 PAINT, 3, III

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 P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

· 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. Liq. 3: Flammable liquids – Category 3

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

Asp. Tox. 1: Aspiration hazard – Category 1