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1 Identification

· **Other means of identification**

· **Trade name:** **KREUL Magic Marble Marbling paint Basic colors 20 ml Set of 6 (Color: White, Sun Yellow, Red, Blue, Green, Black)**
KREUL Magic Marble Marbling paint Metallic colors 20 ml Set of 6 (Color: Silver, Gold, Metallic-Red, Metallic-Violet, Metallic-Blue, Metallic-Green)
KREUL Magic Marble Marbling paint Chalky Living 20 ml Set of 6 (Color: Colorless, Black, Noble Nougat matt, Mademoiselle Rosé matt, Sir Petrol matt, Volcanic Gray)

· **Article number:** 73600, 73610, 73613
· **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.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
C. KREUL GmbH & Co. KG
Carl-Kreul-Straße 2
D-91352 HALLERNDORF
GERMANY
Tel. +49 9545 925 0
Fax +49 9545 925 511
E-Mail: info@c-kreul.de

Importer
Zart Art Pty Ltd
48 Overseas Drive
Noble Park North 3174
VIC
Australia
Phone: + 61 3 9890 1867
Fax: + 61 3 9898 6527

· **Further information obtainable from:** Phone: 61 3 9890 1867 / Fax: 61 3 9898 6527
· **Emergency telephone number:** Poison Centre, Phone: 13 11 26

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2 Hazard(s) Identification

· **Classification of the substance or mixture**

GHS02 flame

Flammable liquids – Category 3 H226 Flammable liquid and vapour.

GHS07

Specific target organ toxicity (single exposure) – Category 3 H336 May cause drowsiness or dizziness.
· **Additional information:** The full text of the classification and labelling elements mentioned is given in Section 16.

· **Label elements**
· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
· **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

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· **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/sparks/open flames/hot surfaces. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
· **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

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3 Composition and Information on Ingredients

· **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 Flammable liquids – Category 3, H226; Specific target organ toxicity (single exposure) – Category 3, H336	25-<50%
CAS: 64742-48-9 EC number: 919-857-5	Hydrocarbons C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics Flammable liquids – Category 3, H226; Aspiration hazard – Category 1, H304; Specific target organ toxicity (single exposure) – Category 3, H336	10-<20%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate Flammable liquids – Category 3, H226	5-<10%
EC number: 918-481-9	Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, <2% aromatics Aspiration hazard – Category 1, H304; Flammable liquids – Category 4, H227	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

· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **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. Then consult a doctor.
· **After swallowing:**
Seek immediate medical advice.
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.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
If swallowed or in case of vomiting, danger of entering the lungs.

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5 Fire Fighting Measures

· **Suitable extinguishing agents:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
· **Protective equipment:** No special measures required.
· **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental Release Measures

· **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.

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Mount respiratory protective device.
· **Environmental precautions:**
Keep contaminated washing water and dispose of appropriately.
Do not allow to enter sewers/ surface or ground water.
In case of seepage into the ground inform responsible authorities.
· **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 section 13.
Ensure adequate ventilation.
· **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

· **Handling:**
· **Precautions for safe handling**
Take note of emission threshold.
Keep away from heat and direct sunlight.
Prevent formation of aerosols.
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.
· **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 alkalis (caustic solutions).
Do not store together with oxidising and acidic materials.
· **Further information about storage conditions:**
Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.
Protect from frost.
Store in a cool place.
Keep container tightly sealed.
· **Storage class:** 3
· **Specific end use(s)** See Section 1.2.

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8 Exposure controls and personal protection

· **Ingredients with limit values that require monitoring at the workplace:**	
107-98-2 1-methoxy-2-propanol	
WEL	Short-term value: 553 mg/m³, 150 ppm Long-term value: 369 mg/m³, 100 ppm
WES	Short-term value: 553 mg/m³, 150 ppm Long-term value: 369 mg/m³, 100 ppm
64742-48-9 Hydrocarbons C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics	
WEL	Short-term value: 593 mg/m³, 100 ppm Long-term value: 296 mg/m³, 50 ppm
108-65-6 2-methoxy-1-methylethyl acetate	
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm
WES	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 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/m³ (general population)
		369 mg/m³ (worker)
64742-48-9 Hydrocarbons C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics		
Oral	chronic - systemic effect	300 mg/kg bw/d (general population)
Dermal	chronic - systemic effect	300 mg/kg bw/d (general population)
		300 mg/kg bw/d (worker)
Inhalative	acute - systemic effect	1,500 mg/m³ (worker)
	chronic - systemic effect	900 mg/m³ (general population)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	chronic - systemic effect	36 mg/kg bw/d (general population)

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Dermal	chronic - systemic effect	320 mg/kg bw/d (general population)
		796 mg/kg bw/d (worker)
Inhalative	acute - local effect	550 mg/m³ (worker)
	chronic - systemic effect	33 mg/m³ (general population)
		275 mg/m³ (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
soil	4.59 mg/kg

108-65-6 2-methoxy-1-methylethyl acetate	
water	6.35 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.

· **Exposure controls**
· **General protective and hygienic measures:**
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.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **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 ≤ 10 - 30 min
· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

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9 Physical and Chemical Properties

· **General Information**	
· **Appearance:**	
· **Form:**	Fluid
· **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**	Flammable.
· **Auto-ignition temperature:**	>200 °C
· **Decomposition temperature:**	Not determined
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Explosion limits:**	
· **Lower:**	0.6 Vol %

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· **Upper:**	13.8 Vol %
· **Vapour pressure:**	Not determined
· **Density at 20 °C:**	0.954–0.995 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 mm²/s
· **Other information**	
· **Particle characteristics**	Not applicable
· **Physical state**	Liquid

10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** Keep away from oxidizing agents, strong alkaline and acidic materials.
· **Hazardous decomposition products:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide

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11 Toxicological Information

· **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	4,016 mg/kg (rat) (EU B.1, ECHA)
Dermal	LD50	13,000 mg/kg (rab)
		>2,000 mg/kg (rat) (EU B.3, ECHA)
Inhalative	LC50/4h	30.04 mg/m³ (rat) (ECHA)
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 (rabbit)
Inhalative	LC50/4h	>4,951 mg/m³ (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 401)
		>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	>10,000 mg/l (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/m³ (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.
· **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.

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12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
107-98-2 1-methoxy-2-propanol	
LC50/96h	1,000 mg/l (oncorhynchus mykiss) (OECD 203)
LC50/48h	21,100–25,900 mg/l (daphnia magna) (ESR-ES-15)

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ErC50	>1,000 mg/l /7d (pseudokirchneriella subcapitata) (ECHA)
64742-48-9 Hydrocarbons C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics	
LC50/96h	>1,000 mg/l (oncorhynchus mykiss) (OECD 203)
EC50/48h	>1,000 mg/l (daphnia magna) (OECD 202)
EC50/72h	>1,000 mg/l (pseudokirchneriella subcapitata) (OECD 201)
108-65-6 2-methoxy-1-methylethyl acetate	
LC50/96h	180 mg/l (oncorhynchus mykiss)
EC50/48h	>500 mg/l (daphnia magna)
EbCx 10%	>1,000 mg/l (microorganisms)
EC50/21d	>100 mg/l (daphnia magna) (OECD 211)
ErC50/96h	>1,000 mg/l (pseudokirchneriella subcapitata)
LC50	63.5 mg/l (oryzias latipes) (OECD 204)
LOEC/96h	>1,000 mg/l (pseudokirchneriella subcapitata)
NOEC/48d	47.5 mg/l (oryzias latipes) (OECD 204)
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)
EL50/48h	>1,000 mg/l (daphnia magna)
LL50/48h	>1,000 mg/l (daphnia magna)
136-52-7 cobalt(II) 2-ethylhexanoate	
EC50/72h	0.528 mg/l (algae)

· **Persistence and degradability**

108-65-6 2-methoxy-1-methylethyl acetate	
Carbon dioxide production	90 % /28d (OECD 301 F)
DOC removal	99 % /28d (OECD 301 F)
Oxygen consumption	83 % /28d (OECD 301 F)
Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, <2% aromatics	
Oxygen consumption	80 % /28d (OECD 301 F)

· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Danger to drinking water if even small quantities leak into the ground.
Do not allow product to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

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

· **Uncleaned packaging:**
· **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information

· **UN-Number**
· **ADG, IMDG, IATA** UN1263

· **UN proper shipping name**
· **ADG** 1263 PAINT
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **ADG, IMDG, IATA**

· **Class** 3 Flammable liquids.
· **Label** 3

· **Packing group**
· **ADG, IMDG, IATA** III

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· **Environmental hazards:**	Not applicable
· **Special precautions for user**	Warning: Flammable liquids.
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable
· **Transport/Additional information:**	
· **ADG**	
· **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

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Australian Inventory of Industrial Chemicals**
We confirm that they we are have checked the AICS under here https://www.industrialchemicals.gov.au/search-inventory and we can confirm that each ingredient is either listed on the AICS and within the allowable limit or meets restrictions on said ingredient.

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

96-29-7	2-butanone oxime	S6; 0,0231%

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
· **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/sparks/open flames/hot surfaces. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

· **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
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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.

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· **Relevant phrases**
H226 Flammable liquid and vapour.
H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
· **Contact:** Phone: 61 3 9890 1867 / Fax: 61 3 9898 6527
· **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
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (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
Flammable liquids – Category 3: Flammable liquids – Category 3
Flammable liquids – Category 4: Flammable liquids – Category 4
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
Aspiration hazard – Category 1: Aspiration hazard – Category 1
· *** Data compared to the previous version altered.**