

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.04.2020 Version number 1.0 Revision: 30.04.2020

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

- · 1.1 Product identifier
- · Trade name:

KREUL Gloss Paint Marker medium Gold

KREUL Gloss Paint Marker fine Gold

KREUL Gloss Paint Marker extrafine Gold

KREUL Gloss Paint Marker calligraphy Gold

(Safety data sheet for the included ink.)

- · Article number: 47020, 47220, 47420, 47520
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the mixture

Lacquer

For artists and hobby user.

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

C. KREUL GmbH & Co. KG

Carl-Kreul-Straße 2

D-91352 HALLERNDORF

DEUTSCHLAND

Tel. + 49 (0)9545 / 925 - 0

Fax + 49 (0)9545 / 925 - 511

E-Mail: info@c-kreul.de

· Further information obtainable from:

Product Safety Department:

Treiber, b.treiber@c-kreul.de

· 1.4 Emergency telephone number: +44 (0)171 635 91 91

2 Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

EC Regulation 1907/2006 (REACH) differentiates between substances, mixtures and articles. In accordance with the definition of articles in REACH, the European Writing Instrument Manufacturer's Association (EWIMA) considers writing instruments, marker pens etc. to be articles. However, no safety data sheets are provided for articles. In contrast, safety data sheets are mandatory for substances and mixtures. For this reason, the information in the safety data sheet provided always refers to the basic ink and not to the product as a whole.

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms

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GHS02

GHS07 (

- · Signal word Warning
- · Hazard-determining components of labelling:

1-methoxy-2-propanol

Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

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

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

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

- 2.3 Other hazards
- · 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	50-<75%
CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42-XXXX	copper Aquatic Acute 1, H400; Aquatic Chronic 2, H411; (Acute Tox. 4, H302	10-<25%
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9 Reg.nr.: 01-2119467174-37-XXXX	zinc powder -zinc dust (stabilized) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	5–<10%
CAS: 1589-47-5 EINECS: 216-455-5 Index number: 603-106-00-0	2-methoxypropanol Flam. Liq. 3, H226; Repr. 1B, H360D; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	<0.25%

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; 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:

Rinse opened eye for several minutes under running water.

Remove contact lenses.

· After swallowing:

If symptoms persist consult doctor.

Rinse out mouth and then drink plenty of water.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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- · 5.3 Advice for firefighters
- · 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

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

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

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

· 6.3 Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

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

No special precautions are necessary if used correctly.

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

· Information about fire - and explosion protection:

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: No special requirements.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: 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.

_	ts with limit values that require mor	intoring at the workplace:	
	1-methoxy-2-propanol		
	ort-term value: 560 mg/m³, 150 ppm		
	g-term value: 375 mg/m³, 100 ppm		
Sk			
7440-50-8			
	ort-term value: 2** mg/m³		
	g-term value: 0.2* 1** mg/m³ ne **dusts and mists (as Cu)		
	dusts and mists (as Cu)		
DNELs			
	1-methoxy-2-propanol		
Oral	long-term exposure-systemic effects	0 0 10 7	
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)	
7440-50-8	copper		
Oral	long-term exposure-systemic effects	0.16 mg/kg (general population)	
Dermal	long-term exposure-systemic effects	137 mg/kg bw/d (general population)	
		137 mg/kg bw/d (worker)	
Inhalative	long-term exposure-systemic effects	18.2 mg/m³ (general population)	
		18.2 mg/m³ (worker)	
7440-66-6	zinc powder -zinc dust (stabilized)		
Oral	long-term exposure-systemic effects	0.83 mg/kg (general population)	
Dermal	long-term exposure-systemic effects	83 mg/kg bw/d (general population)	
	• • • • • • • • • • • • • • • • • • •	83 mg/kg bw/d (worker)	

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Inhalativa lang term evacure	avetamia offecta 2.5 mg/m³ (ganaral napulation)	(Contd. of pa
innaiative liong-term exposure-	systemic effects 2.5 mg/m³ (general population) 5 mg/m³ (worker)	
PNECs	To may marker)	
	w.l	
107-98-2 1-methoxy-2-propar		
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	
7440-50-8 copper		
freshwater	0.0078 mg/l	
marine water	0.0052 mg/l	
sewage treatment plant (STP)	0.23 mg/l	
freshwater sediment	87 mg/kg	
marine sediment	676 mg/kg	
soil	65.5 mg/kg	
7440-66-6 zinc powder -zinc	dust (stabilized)	
freshwater	0.0206 mg/l	
marine water	0.0061 mg/l	
sewage treatment plant (STP)	0.0052 mg/l	
freshwater sediment	87 mg/kg	
marine sediment 56.5 mg/kg		
soil 35.6 mg/kg		
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- · 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.
- · Respiratory protection: Not required.
- 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.

· Eye protection:

Ignition temperature:

· Decomposition temperature:



Tightly sealed goggles

9 Physical and chemical properties

· 9.1 Information on basic physical ar · General Information · Appearance:	nd chemical properties
Form:	Fluid
Colour:	According to product specification
· Odour:	Ether-like Ether-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition Melting point/freezing point: Initial boiling point and boiling ra	Undetermined. nge: 120 °C
· Flash point:	31 °C
· Flammability (solid, gas):	Not applicable.

>250 °C

Not determined.

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· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures a possible.	
· Explosion limits:		
Lower:	1.7 Vol %	
Upper:	11.5 Vol %	
· Vapour pressure at 20 °C:	12 hPa	
· Density at 20 °C:	~1.2 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:	Not determined.	
· Solvent content:		
Organic solvents:	<70 %	
· 9.2 Other information	No further relevant information available.	

10 Stability and reactivity

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

11 Toxicological information

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

· LD/LC5	LD/LC50 values relevant for classification:		
ATE (Ad	ATE (Acute Toxicity Estimates)		
Oral	Oral LD50 >2,000–5,000 mg/kg		
107-98-	2 1-me	ethoxy-2-propanol	
Oral	LD50	5,660 mg/kg (rat)	
Dermal	LD50	13,000 mg/kg (rabbit)	
7440-50	7440-50-8 copper		
Oral	LD50	500 mg/kg (ATE)	

- 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 (carcinogenity, 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: No further relevant information available.
- 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.

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- · Ecotoxical effects:
- · Remark:

Very toxic for fish

Toxic for fish

- · Additional ecological information:
- General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Toxic for aquatic organisms

- 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	· European waste catalogue		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
15 01 02	plastic packaging		
HP3	Flammable		
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity		
HP14	Ecotoxic		

Uncleaned packaging:

and the IBC Code

• Recommendation: Disposal must be made according to official regulations.

<u> </u>	
14.1 UN-Number ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name ADR IMDG	1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT (copper, zinc powder -zinc dust (stabilized)), MAR POLLUTANT
IATA	PAINT
14.3 Transport hazard class(es) ADR, IMDG	
Class	3 Flammable liquids.
Label	3
IATA	
Class	3 Flammable liquids.
Label 14.4 Packing group	3
ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E, <u>S-E</u> A

Not applicable.

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· 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, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category
- E1 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 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.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H360D May damage the unborn child.
- H400 Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects. H410
- 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 européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

PB1: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - oral – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific toxical very large toxicity (clindle).

- Category 1

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