

## Safety data sheet

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

Version number 1.0 Printing date 25.10.2019 Revision: 25.10.2019

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

- · 1.1 Product identifier
- Trade name:

KREUL ArtPen fine Gold 1-2 mm

KREUL ArtPen fine Silver 1-2 mm

KREUL ArtPen fine Copper 1-2 mm

(Safety data sheet for the included ink.)

- · Article number: 47952, 47953, 47954
- 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

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:

Telephone + 49 (0) 9545/925 - 0

Fax + 49 (0) 9545/925 - 511

(Monday - Thursday 8.00 - 17.00, Friday 8.00 - 15.00)

#### 2 Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation.

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 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- 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: 107-21-1<br>EINECS: 203-473-3<br>Index number: 603-027-00-1                                  | ethanediol | ♠ Acute Tox. 4, H302                       | 2.5-<10% |
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Index number: 603-002-00-5<br>Reg.nr.: 01-2119457610-43-XXXX | ethanol    | ♠ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319 | 2.5-<10% |

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

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#### 4 First aid measures

- · 4.1 Description of first aid measures
- General information: No special measures required.
- 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. If symptoms persist, consult a doctor.

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

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

- 5.3 Advice for firefighters
- Protective equipment: Mouth respiratory protective device.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### 6 Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions:

Dilute with plenty of water.

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 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.
- Information about fire and explosion protection:

No special measures required.

The product is not flammable.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Protect from frost.

Protect from heat and direct sunlight.

- Storage class: 10
- · 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:

#### 107-21-1 ethanediol

Short-term value: 104\*\* mg/m³, 40\*\* ppm

Long-term value: 10\* 52\*\* mg/m³, 20\*\* ppm Sk \*particulate \*\*vapour

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|------------------------------------|-------------------------------|------------------|-------------------------------------|-----------------|
| 64-17-5 et                         | thanol                        |                  |                                     |                 |
| WEL Lon                            | g-term value: 1920 n          | ng/m³, 1000 ppm  |                                     |                 |
| DNELs                              |                               |                  |                                     |                 |
| 64-17-5 et                         | thanol                        |                  |                                     |                 |
| Oral                               | long-term exposure-           | systemic effects | 87 mg/kg (general population)       |                 |
| Dermal long-term exposure-systemic |                               | systemic effects | 206 mg/kg bw/d (general population) |                 |
|                                    |                               |                  | 343 mg/kg bw/d (worker)             |                 |
| Inhalative                         | halative long-term exposure-s | systemic effects | 114 mg/m³ (general population)      |                 |
|                                    |                               |                  | 950 mg/m³ (worker)                  |                 |
| PNECs                              |                               |                  |                                     |                 |
| 64-17-5 et                         | thanol                        |                  |                                     |                 |
| water                              |                               | 2.75 mg/l        |                                     |                 |
| freshwater                         | r                             | 0.96 mg/l        |                                     |                 |
| marine wa                          | iter                          | 0.79 mg/l        |                                     |                 |
| sewage tre                         | eatment plant (STP)           | 580 mg/l         |                                     |                 |
| freshwater                         | r sediment                    | 3.6 mg/kg        |                                     |                 |
| soil 0.63 mg/kg                    |                               | 0.63 ma/ka       |                                     |                 |

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

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

- · 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: Goggles recommended during refilling

| 9.1 Information on basic physical and c                                   | hemical properties                            |
|---|---|
| General Information Appearance:   |   |
| Form:   | Fluid   |
| Colour:   | According to product specification            |
| Odour:  | Characteristic                                |
| Odour threshold:  | Not determined.                               |
| pH-value at 20 °C:  | 9.3   |
| Change in condition   |   |
| Melting point/freezing point:<br>Initial boiling point and boiling range: | Undetermined.                                 |
|   |   |
| Flash point:  | 88 °C   |
| Flammability (solid, gas):  | Not applicable.                               |
| Decomposition temperature:  | Not determined.                               |
| Auto-ignition temperature:  | Product is not selfigniting.                  |
| Explosive properties:   | Product does not present an explosion hazard. |
| Explosion limits:   |   |
| Lower:  | 3.5 Vol %                                     |
| Upper:  | 15 Vol %                                      |
| Vapour pressure at 20 °C:   | 59 hPa  |
| Density:  | Not determined.                               |
| Relative density  | Not determined.                               |
| Vapour density  | Not determined.                               |
| Evaporation rate  | Not determined.                               |
| Solubility in / Miscibility with  |   |
| water:  | Fully miscible.                               |

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

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

• **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/LC50  | values rel          | evant for classification: |  |
|------------|---------------------|---------------------------|--|
| 107-21-1   | 107-21-1 ethanediol |                           |  |
| Oral       | LD50                | 5,840 mg/kg (rat)         |  |
| Dermal     | LD50                | 9,530 mg/kg (rabbit)      |  |
| 64-17-5 et | 64-17-5 ethanol     |                           |  |
| Oral       | LD50                | 7,060 mg/kg (rat)         |  |
| Dermal     | LD50                | 12,800 mg/kg (rabbit)     |  |
| Inhalative | LC50/4h             | 20,000 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.
- 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 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.

#### 12 Ecological information

· 12.1 Toxicity

|   |              | ·· <b>·</b>              |
|---|--------------|--------------------------|
| ſ | · Aquatic to | xicity:                  |
| ſ | 64-17-5 etl  | nanol                    |
| Ī | LC50/96h     | 11,000 mg/l (fish)       |
|   | LC50/48h     | 5,012 mg/l (daphnia)     |
|   | EC50/48h     | 9,950 mg/l (crustaceans) |

- 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:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

- · 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

Smaller quantities can be disposed of with household waste.

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Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements

| ,         | · ·  |
|-----------|--|
| · Europea | n waste catalogue  |
| 08 01 12  | waste paint and varnish other than those mentioned in 08 01 11 |
| 15 01 02  | plastic packaging  |

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

| 14.1 UN-Number<br>ADR, ADN, IMDG, IATA                       | not regulated                  |  |
|--|--------------------------------|--|
| 14.2 UN proper shipping name<br>ADR, ADN, IMDG, IATA         | not regulated                  |  |
| 14.3 Transport hazard class(es)                              |                                |  |
| ADR, ADN, IMDG, IATA<br>Class                                | not regulated                  |  |
| 14.4 Packing group<br>ADR, IMDG, IATA                        | not regulated                  |  |
| 14.5 Environmental hazards:                                  | Not applicable.                |  |
| 14.6 Special precautions for user                            | Not applicable.                |  |
| 14.7 Transport in bulk according to Annex I and the IBC Code | l of Marpol<br>Not applicable. |  |
| UN "Model Regulation":                                       | not regulated                  |  |

#### 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 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

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

- · 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)

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. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2