

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

- 1.1 Product identifier
- Trade name: gold
- Registration number
- The ingredients of this product meet the criteria of the Regulation 1907/2006/EC (REACH).
- UFI:
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Currently no such applications are identified.
- Application of the substance / the mixture pigmented Paintmarker Ink

**SECTION 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

Eye Irrit. 2            H319 Causes serious eye irritation.  
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



GHS09

- Signal word Warning
- Hazard-determining components of labelling:  
1-methoxy-2-propanol
- Hazard statements  
H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

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- **Precautionary statements**
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P405 Store locked up.
  - 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.

### SECTION 3: Composition/information on ingredients

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

- **Dangerous components:**

|  |  |         |
|--|--|---------|
| CAS: 107-98-2<br>EINECS: 203-539-1<br>Reg.nr.: 01-2119457435-35  | 1-methoxy-2-propanol<br>⊠ Flam. Liq. 3, H226; ⊠ STOT SE 3, H336  | 50-<75% |
| CAS: 7440-50-8<br>EINECS: 231-159-6<br>Reg.nr.: 01-2119480154-42 | copper flakes (coated with aliphatic acid)<br>⊠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1);<br>⊠ Acute Tox. 4, H302; Eye Irrit. 2, H319<br>ATE: LD50 oral: 500 mg/kg<br>LC50/4 h inhalative: 0.733 mg/l | 10-<25% |
| CAS: 7440-66-6<br>EINECS: 231-175-3<br>Reg.nr.: 01-2119467174-37 | zinc powder -zinc dust (stabilized)<br>⊠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410  | 3-<5%   |

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

### SECTION 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.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **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.

### SECTION 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.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
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 contaminated material as waste according to section 13.  
Ensure adequate ventilation.

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- **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.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **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:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Hand protection**



Protective gloves

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  
If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

- **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.  
Nitrile rubber, NBR
- **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/face protection**



Tightly sealed goggles

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |  |
|--|--|
| • General Information                                      |  |
| • Physical state   | Fluid                                      |
| • Colour:  | According to product specification         |
| • Odour:   | Alcohol-like                               |
| • Odour threshold:   | Not determined.                            |
| • Melting point/freezing point:                            | Undetermined.                              |
| • Boiling point or initial boiling point and boiling range | 120 °C (107-98-2 1-methoxy-2-propanol)     |
| • Flammability   | Flammable.                                 |
| • Lower and upper explosion limit                          |  |
| • Lower:   | 1.7 Vol % (107-98-2 1-methoxy-2-propanol)  |
| • Upper:   | 11.5 Vol % (107-98-2 1-methoxy-2-propanol) |
| • Flash point:   | 31 °C (107-98-2 1-methoxy-2-propanol)      |
| • Auto-ignition temperature:                               | 287 °C (107-98-2 1-methoxy-2-propanol)     |
| • Decomposition temperature:                               | Not determined.                            |
| • pH   | Not determined.                            |
| • Viscosity:   |  |
| • Kinematic viscosity                                      | Not determined.                            |
| • Dynamic at 20 °C:  | 10 mPas                                    |
| • Solubility   |  |
| • water:   | Fully miscible.                            |
| • Partition coefficient n-octanol/water (log value)        | Not determined.                            |
| • Vapour pressure at 20 °C:                                | 13.3 hPa (107-98-2 1-methoxy-2-propanol)   |
| • Density and/or relative density                          |  |
| • Density at 20 °C:  | 1.1 g/cm <sup>3</sup>                      |
| • Relative density   | Not determined.                            |
| • Vapour density   | Not determined.                            |

### 9.2 Other information

|   |  |
|---|--|
|   | The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications. |
| • Appearance:   |  |
| • Form:   | Fluid  |
| • Important information on protection of health and environment, and on safety. | -  |
| • Ignition temperature:   | Product is not selfigniting.   |
| • Explosive properties:   | Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  |
| • Solvent content:  |  |
| • Organic solvents:   | 62.9 %   |
| • Solids content:   | 37.0 %   |
| • Change in condition   |  |
| • Evaporation rate  | Not determined.  |

### Information with regard to physical hazard classes

|   |                              |
|---|------------------------------|
| • Explosives  | none                         |
| • Flammable gases   | none                         |
| • Aerosols  | none                         |
| • Oxidising gases   | none                         |
| • Gases under pressure  | none                         |
| • Flammable liquids   | Flammable liquid and vapour. |
| • Flammable solids  | none                         |
| • Self-reactive substances and mixtures                                     | none                         |
| • Pyrophoric liquids  | none                         |
| • Pyrophoric solids   | none                         |
| • Self-heating substances and mixtures                                      | none                         |
| • Substances and mixtures, which emit flammable gases in contact with water | none                         |
| • Oxidising liquids   | none                         |
| • Oxidising solids  | none                         |
| • Organic peroxides   | none                         |
| • Corrosive to metals   | none                         |
| • Desensitised explosives   | none                         |

## SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.

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- 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.

### SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

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

|        |      |                    |
|--------|------|--------------------|
| Oral   | LD50 | 4,016 mg/kg (rat)  |
| Dermal | LD50 | >2,000 mg/kg (rat) |

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye irritation.
- 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.
- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

### SECTION 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.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties  
The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Remark:  
Very toxic for fish  
Toxic for fish
- Additional ecological information:
- General notes:  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
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.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms  
Toxic for aquatic organisms

### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.




### SECTION 14: Transport information

- 14.1 UN number or ID number
- ADR, IMDG, IATA UN1263

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EU

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|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• 14.2 UN proper shipping name</li> <li>• ADR</li> <li>• IMDG</li> <li>• IATA</li> </ul>   | <p>1263 PAINT, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS<br/>PAINT, MARINE POLLUTANT<br/>PAINT</p>  |
| <ul style="list-style-type: none"> <li>• 14.3 Transport hazard class(es)</li> <li>• ADR</li> </ul>  <ul style="list-style-type: none"> <li>• Class</li> <li>• Label</li> </ul> | <p>3 (F1) Flammable liquids.<br/>3</p>   |
| <ul style="list-style-type: none"> <li>• IMDG</li> </ul>  <ul style="list-style-type: none"> <li>• Class</li> <li>• Label</li> </ul>   | <p>3 Flammable liquids.<br/>3</p>  |
| <ul style="list-style-type: none"> <li>• IATA</li> </ul>  <ul style="list-style-type: none"> <li>• Class</li> <li>• Label</li> </ul>  | <p>3 Flammable liquids.<br/>3</p>  |
| <ul style="list-style-type: none"> <li>• 14.4 Packing group</li> <li>• ADR, IMDG, IATA</li> </ul>   | <p>III</p>   |
| <ul style="list-style-type: none"> <li>• 14.5 Environmental hazards:</li> <li>• Marine pollutant:</li> <li>• Special marking (ADR):</li> </ul>  | <p>Symbol (fish and tree)<br/>Symbol (fish and tree)</p>   |
| <ul style="list-style-type: none"> <li>• 14.6 Special precautions for user</li> <li>• Hazard identification number (Kemler code):</li> <li>• EMS Number:</li> <li>• Stowage Category</li> </ul>   | <p>Warning: Flammable liquids.<br/>30<br/>F-E, S-E<br/>A</p>   |
| <ul style="list-style-type: none"> <li>• 14.7 Maritime transport in bulk according to IMO instruments</li> </ul>  | <p>Not applicable.</p>   |
| <ul style="list-style-type: none"> <li>• Transport/Additional information:</li> </ul>   |  |
| <ul style="list-style-type: none"> <li>• ADR</li> <li>• Limited quantities (LQ)</li> <li>• Excepted quantities (EQ)</li> <li>• Transport category</li> <li>• Tunnel restriction code</li> </ul>   | <p>5L<br/>Code: E1<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 1000 ml<br/>3<br/>D/E</p> |
| <ul style="list-style-type: none"> <li>• IMDG</li> <li>• Limited quantities (LQ)</li> <li>• Excepted quantities (EQ)</li> </ul>   | <p>5L<br/>Code: E1<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 1000 ml</p>               |
| <ul style="list-style-type: none"> <li>• UN "Model Regulation":</li> </ul>  | <p>UN 1263 PAINT, 3, III, MARINE POLLUTANT/<br/>ENVIRONMENTALLY HAZARDOUS</p>  |

### SECTION 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

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- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- National regulations:

- Technical instructions (air):

| Class | Share in % |
|-------|------------|
| III   | 10-<25     |
| NK    | 50-<75     |

- Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 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.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- Date of previous version: 31.01.2023

- Version number of previous version: 1

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

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

Acute Tox. 4: Acute toxicity - Category 4

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

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

- \* Data compared to the previous version altered.