# Safety Data Sheet
**according to WHS Regulations**

Printing date 27.07.2023 Version number 1.3 Revision: 27.07.2023

## 1 Identification

· **Product identifier**

· **Trade name: KREUL Gold Bronze 50 ml**

· **Article number:** 99462
· **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
Phone: + 49 (0) 9545/925 - 0
Fax: + 49 (0) 9545/925 - 511
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
Ph: 61 3 9890 1867 Fax: 61 3 9898 6527 (Monday - Thursday 8.00 - 17.00, Friday 8.00 - 15.00)

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## 2 Hazard(s) Identification

· **Classification of the substance or mixture**


GHS02 flame

| | | |
|---|---|---|
| Flam. Liq. 3 | H226 | Flammable liquid and vapour. |


GHS09 environment

| | | |
|---|---|---|
| Aquatic Acute 1 | H400 | Very toxic to aquatic life. |
| Aquatic Chronic 1 | H410 | Very toxic to aquatic life with long lasting effects. |


GHS07

| | | |
|---|---|---|
| Serious eye damage/irritation – Category 2A | H319 | Causes serious eye irritation. |
| STOT SE 3 | H335-H336 | May cause respiratory irritation. May cause drowsiness or dizziness. |

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


GHS02 GHS07 GHS09

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· **Signal word** Warning

· **Hazard-determining components of labelling:**
Solvent naphtha (petroleum), light arom.
· **Hazard statements**
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H410 Very 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/sparks/open flames/hot surfaces. No smoking.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with regional regulations.
· **Other hazards**
· **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: 64742-95-6<br>EC number: 918-668-5 | Solvent naphtha (petroleum), light arom.<br>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336 | 25-<50% |
| CAS: 7440-50-8<br>EINECS: 231-159-6 | copper<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319 | 10-<20% |
| CAS: 7440-66-6<br>EINECS: 231-175-3<br>Index number: 030-001-01-9 | zinc powder -zinc dust (stabilized)<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 2.5-<10% |

· **Additional information:** 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. If symptoms persist, consult a doctor.
· **After swallowing:**
If symptoms persist consult doctor.
Rinse out mouth and then drink plenty of water.
· **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** No further relevant information available.

## 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:** Mouth respiratory protective device.
· **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**
Wear protective equipment. Keep unprotected persons away.
· **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.

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· **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**
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.
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:**
Do not store together with oxidising and acidic materials as well as heavy-metal compounds.
Store away from flammable substances.
Do not store together with alkalis (caustic solutions).
· **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
· **Storage class:** 3
· **Specific end use(s)** See chapter 1.2.

## 8 Exposure controls and personal protection

| · **Ingredients with limit values that require monitoring at the workplace:** | |
|---|---|
| **7440-50-8 copper** | |
| WES | Long-term value: 1* 0.2** mg/m³<br>*dust & mists (as Cu) **fume |

| · **DNELs** | | |
|---|---|---|
| **64742-95-6 Solvent naphtha (petroleum), light arom.** | | |
| Oral | long-term exposure-systemic effects | 11 mg/kg (general population) |
| Dermal | long-term exposure-systemic effects | 11 mg/kg bw/d (general population) |
| | | 25 mg/kg bw/d (worker) |
| Inhalative | long-term exposure-systemic effects | 32 mg/m³ (general population) |
| | | 150 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) |
| Inhalative | long-term exposure-systemic effects | 2.5 mg/m³ (general population) |
| | | 5 mg/m³ (worker) |

| · **PNECs** | |
|---|---|
| **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 |

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| | |
|---|---|
| freshwater sediment | 87 mg/kg |
| marine sediment | 56.5 mg/kg |
| soil | 35.6 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.
Do not inhale gases / fumes / aerosols.
Immediately remove all soiled and contaminated clothing
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:**
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.3 mm
Value for the permeation: Level ≤ 8 h
· **As protection from splashes gloves made of the following materials are suitable:**
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 mm
Value for the permeation: Level ≤ 0.5 h
· **Eye protection:**

Tightly sealed goggles

## 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:** | 162 °C |
| · **Flash point:** | 45 °C |
| · **Flammability (solid, gas):** | Flammable. |
| · **Decomposition temperature:** | Not determined. |
| · **Explosive properties:** | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · **Explosion limits:** | |
| · **Lower:** | Not determined. |
| · **Upper:** | Not determined. |
| · **Vapour pressure:** | Not determined. |
| · **Density at 20 °C:** | 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:** | >21.5 mm²/s (DIN 53211/4) |
| · **Solvent content:** | |
| · **VOC (EC)** | 34.50 % |
| · **Other information** | No further relevant information available. |

## 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.

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· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

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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:** | | |
|---|---|---|
| **64742-95-6 Solvent naphtha (petroleum), light arom.** | | |
| Oral | LD50 | >6,800 mg/kg (rat) |
| Dermal | LD50 | >3,400 mg/kg (rab) |
| Inhalative | LC50/4h | >10.2 mg/m³ (rat) |
| **7440-50-8 copper** | | |
| Oral | LD50 | 500 mg/kg (ATE) |
| **7440-66-6 zinc powder -zinc dust (stabilized)** | | |
| Oral | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50/4h | 5.41 mg/l (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 respiratory irritation. 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

· **Toxicity**

| · **Aquatic toxicity:** | |
|---|---|
| **64742-95-6 Solvent naphtha (petroleum), light arom.** | |
| LC50/96h | >1,000 mg/l (oncorhynchus mykiss) |
| EC50/48h | >1,000 mg/l (daphnia magna) |

· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Very toxic for fish
· **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.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
· **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:** Disposal must be made according to official regulations.

## 14 Transport information

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

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| | |
|---|---|
| · **UN proper shipping name** | |
| · **ADG** | 1263 PAINT, ENVIRONMENTALLY HAZARDOUS |
| · **IMDG** | PAINT (TURPENTINE, copper), MARINE POLLUTANT |
| · **IATA** | PAINT |

· **Transport hazard class(es)**

· **ADG, IMDG**

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

· **IATA**

| | |
|---|---|
| · **Class** | 3 Flammable liquids. |
| · **Label** | 3 |
| · **Packing group** | |
| · **ADG, IMDG, IATA** | III |
| · **Environmental hazards:** | Product contains environmentally hazardous substances: Solvent naphtha (petroleum), light arom. |
| · **Marine pollutant:** | Yes (DOT)<br>Symbol (fish and tree) |
| · **Special marking (ADG):** | Symbol (fish and tree) |
| · **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<br>Maximum net quantity per inner packaging: 30 ml<br>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<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · **UN "Model Regulation":** | UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS |

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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**

None of the ingredients is listed.

· **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).

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· **Hazard pictograms**

GHS02 GHS07 GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**
Solvent naphtha (petroleum), light arom.

· **Hazard statements**
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H410 Very 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/sparks/open flames/hot surfaces. No smoking.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with regional regulations.

· **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
· **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.

· **Relevant phrases**
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
· **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)
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
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
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.**