

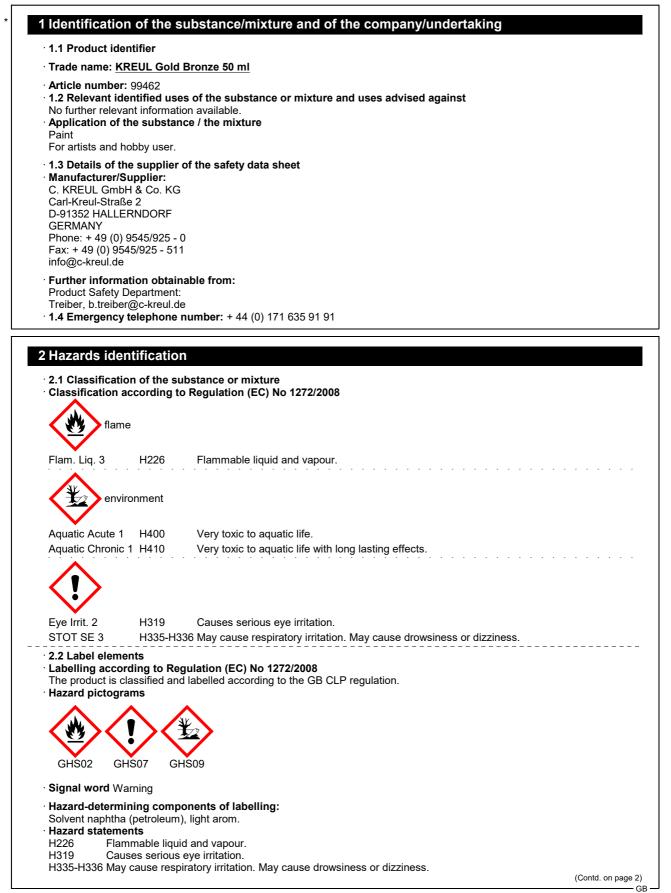
Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.11.2022

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|----------------|---|
| | ry toxic to aquatic life with long lasting effects. |
| Precautionary | v 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. |
| P243 | Take action to prevent static discharges. |
| P261 | Avoid breathing mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P | 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy |
| | to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use CO2, powder or water spray to extinguish. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| 2.3 Other haza | ards |
| Results of PB | T and vPvB assessment |
| PRT. Not appli | cable |

PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

| Dangerous components: | | |
|---|---|----------|
| CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35-XXXX | Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; | 25-<50% |
| CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42-XXX | copper Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319 | 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 | 2.5-<10% |

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

- 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.
- 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.

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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. 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
- 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:
- 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
- · 7.3 Specific end use(s) See chapter 1.2.

8 Exposure controls/personal protection

· 8.1 Control parameters

| 7440-50-8 | copper | | | |
|------------|----------------------|---------------------|---|--|
| WEL Sho | rt-term value: 2** r | ng/m³ | | |
| | g-term value: 0.2* | | | |
| *fun | he **dusts and mis | ts (as Cu) | | |
| DNELs | | | | |
| 64742-95- | 6 Solvent naphth | a (petroleum), ligh | t arom. | |
| Oral | long-term exposu | re-systemic effects | 11 mg/kg (general population) | |
| Dermal | long-term exposu | re-systemic effects | 11 mg/kg bw/d (general population) | |
| | | | 25 mg/kg bw/d (worker) | |
| Inhalative | long-term exposu | re-systemic effects | 32 mg/m³ (general population) | |
| | | | 150 mg/m³ (worker) | |
| 7440-50-8 | copper | | | |
| Oral | long-term exposu | re-systemic effects | 0.16 mg/kg (general population) | |
| Dermal | long-term exposu | re-systemic effects | 137 mg/kg bw/d (general population) | |
| | | | 137 mg/kg bw/d (worker) | |
| Inhalative | long-term exposu | re-systemic effects | 18.2 mg/m ³ (general population) | |
| | | | 18.2 mg/m³ (worker) | |
| 7440-66-6 | zinc powder -zin | c dust (stabilized) | | |
| Oral | long-term exposu | re-systemic effects | 0.83 mg/kg (general population) | |
| Dermal | long-term exposu | re-systemic effects | 83 mg/kg bw/d (general population) | |
| | | | 83 mg/kg bw/d (worker) | |
| Inhalative | long-term exposu | re-systemic effects | 2.5 mg/m³ (general population) | |
| | | | 5 mg/m³ (worker) | |
| PNECs | | | | |
| 7440-50-8 | copper | | | |
| freshwater | • | 0.0078 mg/l | | |

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| | | | (Contd. of page 3) |
| marine water | 0.0052 mg/l | | (conta. or page 5) |
| 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 | | | |
| 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 | | |
| Additional information: The I | ists valid during the making | were used as basis. | J |
| Appropriate engineering com Individual protection measur General protective and hygie Do not eat, drink, smoke or smi Do not inhale gases / fumes / a Immediately remove all soiled Wash hands before breaks and Avoid contact with the eyes an Respiratory protection: In case of brief exposure or I contained respiratory protective Hand protection | res, such as personal proto onic measures: ff while working. aerosols. and contaminated clothing d at the end of work. d skin. ow pollution use respirator | ective equipment | ive or longer exposure use self- |
| Due to missing tests no recon nixture. | nmendation to the glove ma | the product/ the substance/ the product/ the substance/ the produ aterial can be given for the produ | ict the preparation/ the chemical |
| aterial of gloves be selection of the suitable of m manufacturer to manufa aterial can not be calculated ateriation time of glove ma be exact break through time b | gloves does not only depen icturer. As the product is a in advance and has therefor i terial has to be found out by the m | d on the material, but also on fu preparation of several substar e to be checked prior to the appl anufacturer of the protective glov | rther marks of quality and varies aces, the resistance of the glove ication. |
| For the permanent contact g Butyl rubber, BR | loves made of the followin | ig materials are suitable: | |
| Recommended thickness of th | | | |
| Value for the permeation: Leve | | ing materials are cuitable. | |
| As protection from splashes Nitrile rubber, NBR | gioves made of the follow | my materials are suitable: | |
| Recommended thickness of th | | | |
| Value for the permeation: Leve | l ≤ 0.5 h | | |
| Eye/face protection Tightly sealed gog | gles | | |
| | | | |
| | | | |
| Physical and chemical | properties | | |
| 9.1 Information on basic phy | sical and chemical proper | ties | |
| General Information | - | | |
| Physical state | | Fluid | |
| Colour: | | According to product specificati | on |
| Odour: Odour threshold: | | Characteristic | |
| Melting point/freezing point: | | Not determined. Undetermined. | |
| Boiling point or initial boiling | point and boiling range | 162 °C | |
| Flammability | | Flammable. | |
| ower and unner explosion I | imit | | |

Not determined. Not determined. 45 °C

- Flammability
- · Lower and upper explosion limit
- · Upper:
- · Flash point:

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| Decomposition temperature: | Not determined. |
| рН | Not determined. |
| Viscosity: | |
| Kinematic viscosity at 40 °C | >21.5 mm²/s (DIN 53211/4) |
| Dynamic: | Not determined. |
| Solubility | |
| water: | Not miscible or difficult to mix. |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure: | Not determined. |
| Density and/or relative density | |
| Density at 20 °C: | 1.1 g/cm ³ |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| 9.2 Other information | |
| Appearance: | |
| Form: | Fluid |
| Important information on protection of health | |
| environment, and on safety. | |
| Auto-ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Product is not explosive. However, formation of explosive ai |
| Explosive properties. | vapour mixtures are possible. |
| Solvent content: | vapour mixtures are possible. |
| VOC (EC) | 34.50 % |
| Change in condition | 54.50 /0 |
| Evaporation rate | Not determined. |
| | Not determined. |
| Information with regard to physical hazard classes | |
| Explosives | Void |
| Flammable gases | Void |
| Aerosols | Void |
| Oxidising gases | Void |
| Gases under pressure | Void |
| Flammable liquids | Flammable liquid and vapour. |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit flammable ga | |
| in contact with water | Void |
| Oxidising liquids | Void |
| Oxidising solids | Void |
| Organic peroxides | Void |
| Corrosive to metals | Void |
| Desensitised explosives | Void |

10 Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

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- 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

 \cdot 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 v | values rel | levant for classification: |
|-------------|------------|------------------------------------|
| 64742-95- | 6 Solvent | t 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 pow | /der -zinc dust (stabilized) |
| Oral | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50/4h | 5.41 mg/l (rat) |

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- 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.
- · 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

12 Ecological information

- · 12.1 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)
- 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
- 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

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.

| · 14.1 UN number or ID number · ADR, IMDG, IATA | UN1263 | |
|---|--|--|
| 14.2 UN proper shipping name ADR IMDG IATA | 1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT (TURPENTINE, copper), MARINE POLLUTANT PAINT | |
| ADR, IMDG | | |
| · Class · Label | 3 Flammable liquids. 3 | |

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| ·IATA | |
| | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | III |
| · 14.5 Environmental hazards: | Product contains environmentally hazardous substances: Solvent naphtha (petroleum), light arom. |
| · Marine pollutant: | Symbol (fish and tree) |
| Special marking (ADR): | Symbol (fish and tree) |
| 14.6 Special precautions for user | Warning: Flammable liquids. |
| Hazard identification number (Kemler code): | 30 |
| EMS Number: | F-E, <u>S-E</u> |
| · Stowage Category | A |
| 14.7 Maritime transport in bulk according to IM instruments | O Not applicable. |
| Transport/Additional information: | |
| · ADR | |
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml |
| · Transport category | Maximum net quantity per outer packaging: 1000 ml 3 |
| • Tunnel restriction code | D/E |
| | 5,2 |
| · IMDG · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | S∟ 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
- 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.
- 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.
- Department issuing SDS: Product Safety Department
- Contact: B. Treiber, b.treiber@c-kreul.de
- 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 Martinic Good For Jangerood Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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| 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 (UK REACH) | |
| PNEC: Predicted No-Effect Concentration (UK 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 | |
| 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. | |
| | |