

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.02.2022

Revision: 16.02.2022

SECTION 1: Identification of the substance / preparation and of the company/undertaking

1.1 Product identifier

Trade name: **BRONZE POWDER**

(RICHPALEGOLD-08, PALEGOLD -07, RICHGOLD-05 ,RPGLS-20 , PGLS-20, CPLS-20
COPPER-02, SUPER GOLD LB35 ,YLS20, GLS20)

1.2 Relevant identified uses of the substance or mixture and uses advised against:
No further relevant information available

Application of the substance / the preparation: Pigment (flake structure)

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer: MERKÜR İTHALAT İHRACAT TİCARET LTD.ŞTİ.
Orta Mahalle Maltepe Caddesi Samanyolu Sokak Öz İş
Hanı No:5 Kat:2 Bayrampaşa İSTANBUL TÜRKİYE
+90(0212) 294 54 18 +90 (541) 567 50 40
www.merkurgold.com info@merkurgold.com

Information department: See supplier/manufacturer

1.4 Emergency telephone number:

+44 1235 239670 National Chemical Emergency Centre (NCEC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



N; Dangerous for the environment

R50:/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

Not applicable.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



GHS09

Signal word Warning

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· **Hazard statements**

H410 Very toxic to aquatic life with long lasting effects

· **Precautionary statements**

P273 Avoid release to the environment.

P391 Collect spillage.

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:** Alloy of substances listed below.

· **Dangerous components:**

| | | |
|---|--|------|
| CAS- Nr. 7440-50-8 EINECS: 231-175-3 Reg.nr: 01-2119480154-42 | Copper  N R50  Aquatic Acute 1, H400 | >70% |
| CAS- Nr. 7440-66-6 EINECS: 231-159-6 Reg.nr: 01-2119467174-37 | Zinc  N R50/53  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410 | <30% |

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Take affected persons out in to the fresh air.

Take affected persons out of danger area and lay down.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Generally the product does not irritate the skin.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

· **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

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - Dry sand
 - Special powder for metal fires. Do not use water.
 - ABC powder
 - Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:**
 - Water
- **5.2 Special hazards arising from the substance or mixture**
- **Advice for firefighters**
- **Protective equipment:** No special measures required
 - Do not inhale combustion gases.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Avoid formation of dust.
 - Wear protective equipment. Keep unprotected persons away.
 - Do not inhale dust / smoke / mist.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**
 - Pick up mechanically.
 - Dispose contaminated material as waste according to item 13.
- **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** Prevent formation of dust.
- **Information about fire - and explosion protection:**
 - Keep ignition sources away - Do not smoke.- Protect from heat.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - Requirements to be met by storerooms and receptacles:**
 - Store in cool, dry place in tightly closed receptacles.
 - Ensure good ventilation/exhaustion at the workplace.
 - Information about storage in one common storage facility:**
 - Store away from flammable substances. Store away from oxidizing agents.
 - Further information about storage conditions:**
 - Protect from humidity and water. Keep container tightly sealed.
- **7.3 Specific end use(s)**
 - No further relevant information available

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SECTION 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:**

| | |
|--|--|
| * Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten: | |
| * 7440-50-8 Kupfer | |
| OES (occupational Exposure Standart) | Short-term value: 2mg/m ³ (dust and mists) Long-term value: 0,1mg/m ³ (fume)/ 1mg/m ³ (dust and mists) |
| * 7440-66-6 Zink | |
| OES (occupational Exposure Standart) | Short-term value: 5mg/m ³ (dust and mists) Long-term value: 0,2mg/m ³ (fume)/ 2,5mg/m ³ (dust and mists) |

· **Additional information:**

The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from food stuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· **Respiratory protection:** Filter P1

· **Protection of hands:**

Leather gloves

Preventive skin protection by use of skin-protecting agents is recommended.

Prior to contact with the waterinsoluble substance / product / preparation apply watersoluble skin-protecting agent (fat-free film former or O/W-emulsions).

· **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.

· **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:**

Safety glasses

· **Body protection:** Protective work clothing

SECTION 9: Stability and reactivity

· **9.1 Information on basic physical and chemical properties**

· **General Information:**

· **Appearance:**

Form: Powder (Flakes)

Colour: Gold

· **Odour:** Odourless

· **Odour threshold:** Not applicable

· **ph-value** Not applicable

· **Change in condition:**

Melting point/Melting range: 900° C

Boiling point/Boiling range: Not applicable

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| | | |
|---|---|--------------------|
| : Trade name: BRONZE POWDER | | (Contd. of page 4) |
| · Flash point: | Not applicable | |
| · Flammability (solid, gaseous): | Not flammable | |
| · Ignition temperature: | Not applicable | |
| · Decomposition temperature | not determined | |
| · Self ignition temperature: | Product is not self-igniting. | |
| · danger of explosion: | Product does not present an explosion hazard. | |
| · Explosion limits: | | |
| Lower: | Not applicable | |
| Upper: | Not applicable | |
| · Vapour pressure | not applicable | |
| · Density: | 8,6g/cm | |
| · Bulk density: | 900 -1400 kg / m ³ | |
| · Relative density | not determined | |
| · Vapour density: | Not applicable | |
| · Evaporation rate: | Not applicable | |
| · Solubility in / Miscibility with Water: | Insoluble | |
| · Segregation coefficient (n-octanol/water): | Not determined. | |
| · Viscosity: | | |
| dynamic: | Not applicable | |
| kinematic: | Not applicable | |
| · 9.2 Other information: | No further relevant information available. | |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information
- **10.2 Chemical stability** No further relevant information
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidising agents.
- **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 toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
Inhalation of dust or fumes leads to irritation of respiratory system. Inhalation of higher concentrations may cause metal fume fever.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available

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SECTION 12: Ecological information

- **12.1 Toxicity**
- **Acquatic 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.
- **Additional ecological information:**
- **General notes:**
Generally not hazardous for water
Do not allow product to reach ground water, water course or sewage system.
- **12.4 Results of PBT and vPvB assessment**
- **vPBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Contact manufacturer for recycling information
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
12 01 04 non-ferrous metal dust and particles
- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.

SECTION 14: Transport information

| | |
|--|---|
| * 14.1 UN-Number | UN3077 |
| * ADR, IMDG, IATA | |
| * 14.2 UN proper shipping name : | 3077UMWELTGEFÄHRDENDER STOFF, FEST, N.A.G. (Kupfer, Zink) |
| * ADR | 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper , zinc), |
| * IMDG | 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc), MARINE POLLUTANT |
| * IATA | 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zink) |
| * 14.3 Transport hazard class(es) | |
| * ADR |   |
| * Class | 9 Miscellaneous dangerous substances and articles |
| * Label | 9 |
| | |
| * IMDG, IATA |   |
| * Class | 9 Miscellaneous dangerous substances and articles |
| * Label | 9 |

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| <p>* 14.4 Packing group * ADR, IMDG, IATA</p> | <p style="text-align: center;">III</p> |
| <p>* 14.5 Environmental hazards : * Marine pollutant: * Special marking(ADR) * Special marking(IATA)</p> | <p>The product contains environmentally hazardous substances : Copper, Zinc YES, Symbol (Fisch und Baum) Symbol (Fisch und Baum) Symbol (Fisch und Baum)</p> |
| <p>* 14.6 Special precautions for user * Danger coder (Kemler): * EMS-Nummer * Segregation groups</p> | <p>Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F Heavy metals and their salts (including their organometallic compounds), powdered metals</p> |
| <p>* 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.</p> | |
| <p>* Transport / Additional information:</p> <p>-----</p> | |
| <p>* ADR * Exepted quantities(EQ) * Limited quantities (LQ) * Transport categorie * Tunnel restriction code</p> | <p style="text-align: center;">E1 5 kg 3 E</p> |
| <p>-----</p> | |
| <p>* IATA * Packing instructions * Cargo and passenger aircraft : * Limited quantities (LQ) * Transport categorie</p> | <p style="text-align: center;">956 Y956 3</p> |
| <p>* UN „, Model Regulation“:</p> | <p style="text-align: center;">UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zink)</p> |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Technical instructions (air):**
- **Waterharzard class:** Water harzard class 2 (Self-asesment): harzardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has 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.

- **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)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer(Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)