

# **Safety Data Sheet according to Regulation (EC) No 830/2015**

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## **SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifiers:** Metal Pigment Gold

Type of substance: CLP Mixture

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Metallic pigment for hobby.

**1.3 Details of the supplier of the safety data sheet:**

Pentacolor Kft.

1103 Budapest, Gyömrői út 86.

tel.: +36-1-260-7477

fax: +36-1-262-1345

e-mail: [info@pentacolor.hu](mailto:info@pentacolor.hu)

For product safety information please contact: [info@pentacolor.hu](mailto:info@pentacolor.hu)

**1.4 Emergency telephone number:**

Egészségügyi Toxikológiai Tájékoztató Szolgálat

Address: 1096, Budapest, Nagyvárad tér 2., Hungary

tel: 06/80/20 11 99 (green number), 06/1/ 476 64 64 (during working hours)

## **SECTION 2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008**

Flam. Sol. 1

H228 Flammable solid

Acute Tox. 4

H302 Harmful if swallowed

Aquatic Acute 1

H400 Very toxic to aquatic life

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects

**2.2. Label elements:**

**Labelling according to Regulation (EC) No 1272/2008**

Contains: copper powder, zinc powder (stabilized)

**Hazard pictograms:**



**Signal Word:** Danger

**Hazard Statements:**

H228 Flammable solid.

H302 Harmful if swallowed

H410 Very toxic to aquatic life with long lasting effects

**Precautionary Statements**

P102 Keep out of reach of children

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P260 Do not breathe dust

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+378 In case of fire: Use for extinction: Special powder for metal fires/dry sand

P501 Dispose of contents/ container in accordance with the local regulations.

**2.3 Other hazards:**

PBT and vPvB: not applicable

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixture:**

Metal powder. The details below includes all impurities and by-products that contribute to the product classification or that have an occupational exposure limits.

Hazardous Substance(s): copper powder

concentration: > 70 %

EC-No.: 231-159-6

CAS-No.: 7440-50-8

Index-No: --

Classification according to Regulation (EC) No 1272/2008 : Acute Tox. 4 H302, Aquatic Acute 1 H400 (M = 10), Aquatic Chronic 2 H411

Registration number : 01-2119480154-42

Hazardous Substance(s): zinc powder (stabilized)

concentration: < 30 %

EC-No.: 231-175-3

CAS-No.: 7440-66-6

Index-No. : 013-002-00-1

Classification according to Regulation (EC) No 1272/2008: Flam. Sol. 1 H228, Aquatic Acute 1 H400, Aquatic Chronic 1 H410

Registration number : 01-2119467174-37

Refer to Section 16 for full details of the risk phrases, hazard statements and Notas.

**SECTION 4. FIRST AID MEASURES****4.1 Description of necessary first-aid measures:****General:**

**General information** Instantly remove any clothing soiled by the product.

**Inhalation:**

Supply fresh air; consult doctor in case of symptoms.

**Eye contact:**

Rinse opened eye for several minutes under running water. Consult a doctor in case of persistent symptoms or complaints.

**Skin contact:**

Remove contaminated clothing. Wash skin thoroughly with soap and water. The product is not skin irritating.

**Ingestion:**

Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed:**

Harmful if swallowed

**4.3 Indication of immediate medical attention and special treatment needed:**

Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Dry sand.

Use fire fighting measures that suit the environment.

**For safety reasons unsuitable extinguishing agents**

Water, Water with a full water jet. Carbon dioxide

**5.2 Special hazards arising from the substance or mixture**

No further relevant information available..

**5.3 Advice for firefighters**

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. Avoid causing dust.

**6.2 Environmental precautions**

Do not allow to enter drains or watercourses.

**6.3 Methods and materials for containment and cleaning up**

Collect mechanically. Ensure adequate ventilation. Do not flush with water or aqueous cleaning agents.

**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 information on disposal.

**SECTION 7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed containers.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be removed regularly.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

**7.3 Specific end uses**

See section 1.2

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)****CAS 7440-50-8 copper powder**

DNEL: Workers, Long-term - systemic effects, 0,041 mg/kg bw/day (human)

DNEL: Workers, Short-term - systemic effects, 0,082 mg/kg bw/day (human)

**CAS 7440-66-6 zink powder- zink dust (stabilized)**

oral soluble: 50 mg/d

oral insoluble: 50 mg/d

dermal soluble: 500 mg/d

dermal insoluble: 5000 mg/d

inhalative soluble: 1,3 mg/m<sup>3</sup> (consumer), 1 mg/m<sup>3</sup> (worker)

inhalative insoluble: 2,5 mg/m<sup>3</sup> (consumer), 5 mg/m<sup>3</sup> (worker)

**Predicted No Effect Concentration (PNEC)****CAS 7440-50-8 copper powder**

Fresh water: 7,8 microgr./l (environmental)

Marine water: 5,2 microgr./l (environmental)

Sewage treatment plant (STP): 230 microgr./l (environmental)

Sediment (Fresh water) Related to, dry weight: 87 mg/kg (environmental)  
Sediment (Marine water) Related to, dry weight: 676 mg/kg (environmental)  
Soil Related to, dry weight: 65,5 mg/kg (environmental)  
Sediment estaurine: 288 mg/kg dry weight (environmental)

**CAS 7440-66-6 zink powder- zink dust (stabilized)**

Fresh water: 20,6 microgr./l  
Marine water: 6,1 microgr./l  
Sewage treatment plant (STP): 52 microgr./l  
Sediment (Fresh water) Related to, dry weight: 117,8 mg/kg  
Sediment (Marine water) Related to, dry weight: 56,5 mg/kg  
Soil Related to, dry weight: 35,6 mg/kg

**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

**Personal protective equipment****Eye/face protection**

Tightly sealed safety glasses..

**Skin protection**

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**

Use water-soluble skin protection products before using water-insoluble products (Grease-free layer or oil-water emulsion) 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. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Body Protection**

Protective work clothing.

**Respiratory protection**

Not required.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

- (a) Appearance: powder, Colour: gold
- (b) Odour: characteristic
- (c) Odour threshold: not determined
- (d) pH: not applicable
- (e) Melting point/freezing point: cannot be determined
- (f) Initial boiling point and boiling range: > 999 C
- (g) Flash point: not applicable
- (h) Evaporation rate: not applicable.
- (i) Flammability (solid, gas): flammable
- (j) Upper/lower flammability or explosive limits: not determined.
- (k) Vapour pressure: not applicable
- (l) Vapour density: not applicable
- (m) Relative density: 8.32 g/cm<sup>3</sup>
- (n) Solubility(ies): insoluble
- (o) Partition coefficient: n-octanol/water: not applicable.
- (p) Auto-ignition temperature: product is not selfigniting.
- (q) Decomposition temperature: not determined.
- (r) Viscosity: not applicable
- (s) Explosive properties: not determined.
- (t) Oxidising properties. not applicable

**9.2. Other information**

No further relevant information available

**SECTION 10. STABILITY AND REACTIVITY****10.1 Reactivity**

No hazardous reactions can be expected under normal handling and storage

**10.2 Chemical stability**

No decomposition if handled and stored according to specifications.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

Keep away from heat and sources of ignition.

**10.5 Incompatible materials**

No further relevant information available.

**10.6 Hazardous decomposition products**

No dangerous decomposition products known.

**SECTION 11. TOXICOLOGICAL INFORMATION**

(a) acute toxicity: Harmful if swallowed

CAS 7440-66-6 zinc powder – zinc dust (stabilized)

LD50/Oral/Rat: > 2000 mg/kg

(b) skin corrosion/irritation: Based on available data, the classification criteria are not met

(c) serious eye damage/irritation: Based on available data, the classification criteria are not met

(d) respiratory or skin sensitisation: Based on available data, the classification criteria are not met

(e) germ cell mutagenicity: Based on available data, the classification criteria are not met

(f) carcinogenicity: Based on available data, the classification criteria are not met

(g) reproductive toxicity: Based on available data, the classification criteria are not met

(h) STOT-single exposure: Based on available data, the classification criteria are not met

(i) STOT-repeated exposure: Based on available data, the classification criteria are not met

(j) aspiration hazard: Based on available data, the classification criteria are not met

**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 Other adverse effects** Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Wastes and emptied containers should be disposed of in accordance with local regulations.

**EWC:** 12 01 04 non-ferrous metal dust and particles

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

14.1. UN number 3089

14.2. UN proper shipping name METAL POWDER, FLAMMABLE, N.O.S., MARINE POLLUTANT

14.3. Transport hazard class(es) 4.1

Label(s): 4.1

Road Tunnel Restrictions: E  
Transport category : 2  
Limited Quantity (LQ): 1 kg  
Excepted quantities (LQ): E2 max. net quantity per inner packaging: 30 g, max. net quantity per outer packaging: 500 g  
Limited Quantity (LQ): 1 kg  
14.4. Packing group II  
14.5. Environmental hazards Yes  
14.6. Special precautions for user Flammable solids (brass powder)  
Kemler-no.: 40  
EMS: F-G, S-G  
Segregation groups: heavy metals and their salts (Including their organometallic compounds), powdered metals  
Stowage category: B  
Handling Code: H1 Keep as dry as reasonably practicable  
Segregation Code:  
SG17 Stow „separated from” class 5.1  
SG25 Stow „separated from” goods of classes 2.1 and 3.  
SG26 In addition: from goods of classes 2.1 and 3 when stowed on deck of a containership a minimum distance of two container spaces athwartship shall be maintained, when stowed on ro-ro ships a distance of 6 meter athwartship shall be maintained.  
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not applicable

## **SECTION 15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 2012/18/EU Directive:

Thresholds (t): Lower threshold: 100 t, Upper threshold: 200 t

SVHC: does not contain

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

According to the local regulation.

### **15.2 Chemical Safety Assessment**

Chemical safety assessment has not been carried out.

## **SECTION 16. OTHER INFORMATION**

### **Data Sources:**

The previously-classified hazardous materials list  
Internet database of chemical substances  
Safety data sheets of components

### **LIST OF RELEVAN H-PHRASES IN SECTION 3**

### **H-Phrases**

H228 Flammable solid  
H302 Harmful if swallowed  
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

### **Abbreviations:**

Flam. Sol. 1	Flammable Solid Category 1
Acute Tox. 4	Acute Toxicity Category 4
Aquatic Acute 1	Aquatic Acute Category 1
Aquatic Chronic 1	Aquatic Chronic Category 1
Aquatic Chronic 2	Aquatic Chronic Category 2

EK / EU European community/European union

EGK European Economic Community

DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration

CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures /

CAS Chemical Abstracts Service

UN / ENSZ United Nations

ADN Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route

RID Règlement international concernant le transport des marchandises dangereuses par chemin de fer

IMDG International Maritime Code for Gangerous Goods

MARPOL International Convention for the Prevention of Pollution From Ships

IBC Intermediate Bulk Container

IATA International Air Transport Association

ICAO International Civil Aviation Organization

PBT Persistent, Bioaccumulative, Toxic

vPvB very Persistent, very Bioaccumulative

This product Safety Data Sheet provides health, safety, and regulatory information. The information contained in this Safety Data Sheet is based on data available to us at the date of issue , and is provided in good faith, and believed to be accurate and reliable at the date of issue, however, no warranty, express or implied is provided. The product is to be used in applications consistent. For any other uses, exposures should be evaluated so that the appropriate handling practices and training programs can be established to ensure safe working conditions and operations. It is the buyer's/user's responsibility to satisfy itself that the product is suitable for the intended use, and to ensure that its activities comply with all federal, state, provincial, or local laws and regulations. Regulatory requirements are subject to change and may differ between European Member States and Nations. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.