



IDEAL WORK

PUROMETALLO-ORO

Revision nr. 1

Dated 12/01/2017

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Safety Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: PUROMETALLO-ORO
Product name

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

Intended use Charging for decorative coverings

1.3 Details of the supplier of the safety data sheet

Company name IDEAL WORK SRL
Address Via Kennedy, 52
Place and country 31030 Vallà di Riese Pio X (TV)
Italy
tel. +39 0423 /4535
fax +39 0423 /748429

e-mail address for a competent person,
responsible for the safety data sheet

sicurezza@idealwork.it

1.4 Emergency telephone number

For information in an emergency

Poison center:
National Poisons Information Service (Birmingham
Unit) City Hospital
Dudley Rd Birmingham
Telephone: +44 121 507 4123
Fax: +44 121 507 55 88
Emergency telephone: 844 892 0111

SECTION 2. Hazards identification.

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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

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

Hazard pictograms



Signal word Warning

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

Inhalation of dust or fumes leads to irritation of respiratory system. Inhalation of higher concentrations may cause metal fume fever.

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.



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SECTION 3. Composition/information on ingredients.

3.2 Mixtures

Description: Alloy of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42	copper Aquatic Acute 1, H400 (M=1); Aquatic Chronic 3, H412	40 - 95%
CAS: 7440-66-6 EINECS: 231-175-3 Reg.nr.: 01-2119467174-37	zinc Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5 - 50%
CAS: 7440-31-5 EINECS: 231-141-8 Reg.nr.: 01-2119486474-28	tin	0 - 10%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45	aluminium	0 - 1%
CAS: 7440-22-4 EINECS: 231-131-3 Reg.nr.: 01-2119555669-21	silver substance with a Community workplace exposure limit	0 - 5%

SECTION 4. First aid measures.

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Rinse skin with water/shower.

Generally the product does not irritate the skin.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist consult 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:

Special powder for metal fires. Do not use water. Dry sand

For safety reasons unsuitable extinguishing agents: Water

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



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SECTION 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust. Wear protective clothing.
Do not inhale dust / smoke / mist.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or groundwater.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

SECTION 7. Handling and storage.

7.1 Precautions for safe handling Prevent formation of dust.

Information about fire - and explosion protection: No special measures required.

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.

Information about storage in one common storage facility:

Do not store together with oxidising and acidic materials.

Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

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:	
7440-50-8 copper	
WEL	Short-term value: 2** mg/m ³ Long-term value: 0.2* 1** mg/m ³ *fume **dusts and mists (as Cu)
7440-22-4 silver	
WEL	Long-term value: 0.1 mg/m ³
7429-90-5 aluminium	
WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust

DNELs

Copper:
Short-term DNEL (human, systemic effects): 0.082 mg Cu/kg Bwt/d Long-term DNEL (human, systemic effects): 0.041 mg Cu/kg Bwt/d Short-term NOAEL (human, oral, drinking water): 4 mg/l

PNECs

Copper:
PNEC aqua (freshwater): 7.8 µg/l PNEC aqua (marine water): 5.2 g/l
PNEC sediment (freshwater): 87 mg Cu/kg dry wt PNEC sediment (marine water): 676 mg Cu/kg dry wt

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Suitable respiratory protective device recommended.

Protection of hands:

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



Protective gloves

Eye protection: Goggles recommended during refilling

Body protection: Protective work clothing

SECTION 9. Physical and chemical properties.

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Powder
Colour:	Gold coloured
Odour:	Odourless

· pH-value: Not applicable

· Change in condition

Melting point/freezing point:	800 - 1080 °C
Initial boiling point and boiling range:	Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gas): Not determined

· Ignition temperature: Not determined

· Decomposition temperature: Not applicable

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not determined
Upper:	Not determined

· Vapour pressure: Not applicable

· Density at 20 °C: 8.0 - 8.9 g/cm³

· Bulk density: 3.0 - 4.5 g/cm³

· Evaporation rate: Not applicable

· Solubility in / Miscibility with water: Insoluble.

· Partition coefficient: n-octanol/water: Not applicable

· Viscosity: Not applicable

· 9.2 Other information: No further relevant information available.

**SECTION 10. Stability and reactivity.**

- 10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability** No further relevant information available.
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.
As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
- 10.3 Conditions to avoid** No further relevant information available.
- 10.4 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 Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification: None
Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
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.
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 Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.

SECTION 12. Ecological information.

- 12.1 Toxicity**
Aquatic toxicity: Based on available data, the classification criteria are not met.
- 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: Do not allow product to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment**
PBT: Not applicable.
vPvB: Not applicable.
- 12.6 Other adverse effects** No further relevant information available.



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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

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste Codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	off-specification batches and unused products
16 03 03*	inorganic wastes containing hazardous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations

SECTION 14. Transport information.

14.1 UN-Number

ADR, IMDG, IATA UN3077

14.2 UN proper shipping name

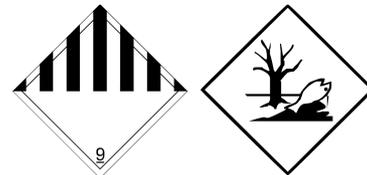
ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)
IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper), MARINE POLLUTANT
IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class 9 (Miscellaneous dangerous substances and articles)

Label: 9



14.4 Packing group

ADR, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: Yes Symbol (fish and tree)
Special marking (ADR): Symbol (fish and tree)
Special marking (IATA): Symbol (fish and tree)

Goods not dangerous for net quantity up to 5 Kg – according to special provision

ADR: Special provision 375
IMDG: Special provision 2.10.2.7
IATA: Special provision A197

14.6 Special precautions for user

Danger code (Kemler): 90
EMS Number: F-A,S-F
Stowage Category: A
Stowage Code: SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

Transport/Additional information: These substances when carried in single or combination packagings having a net mass per single or inner packaging of 5 kg or less, are not subject to any other provisions of ADR /



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IMDG provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

ADR**Excepted quantities (EQ):**

E1

Limited quantities (LQ)

5 kg

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

Transport category

3

Tunnel restriction code

Void

IMDG**Limited quantities (LQ)**

5 kg

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

SECTION 15. Regulatory information.

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

Directive 2012/18/EU**Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t**National regulations:****Waterhazard class:** Water hazard class 2 (Self-assessment): 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

(serves as the explanation for only the hazard phrases noted in the MSDS, e.g. in chapter 3) H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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 européen sur le transport 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) 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

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 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3