



IDEAL WORK

Revision nr. 1

Dated 22/03/2017

PUROMETALLO-RAME

Printed on October 25, 2018

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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-RAME  
Product name

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

Intended use

#### 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](mailto: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 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

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

The substance is classified and labelled according to the Globally Harmonized System (GHS). The substance is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS09

Signal word: Warning

#### Hazard statements

H400 Very toxic to aquatic life.  
H412 Harmful 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.



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### 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

## SECTION 3. Composition/information on ingredients.

### 3.1 Substances

**CAS No. Description**

7440-50-8 copper

**Identification number(s)**

**EC number:** 231-159-6

## 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.

## 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 oxidizing 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: |   |
|---|---|
| <b>7440-50-8 copper</b>   |   |
| WEL   | Short-term value: 2** mg/m <sup>3</sup> Long-term value: 0.2* 1**mg/m <sup>3</sup><br>*fume **dusts and mists (as Cu) |

### 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 B wt/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 µg/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. Filter P2

**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:** Copper colored  
**Odor:** Odorless  
**pH-value:** Not applicable

**Change in condition**

**Melting point/freezing point:** 1083 °C  
**Initial boiling point and boiling range:** 2597°C  
**Flash point:** Not applicable  
**Flammability (solid, gas):** Product is not flammable  
**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 applicable  
**Upper:** Not applicable

**Vapour pressure:** Not applicable

**Density at 20 °C:** 8.9 g/cm<sup>3</sup>

**Bulk density at 20 °C:** 0.5 - 5.5 g/cm<sup>3</sup>

**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

**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 oxidizingagents.

**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** 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.

**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.

**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.

## 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



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### SECTION 14. Transport information.

#### 14.1 UN-Number

ADR, IMDG, IATA UN3077

#### 14.2 UN proper shipping name

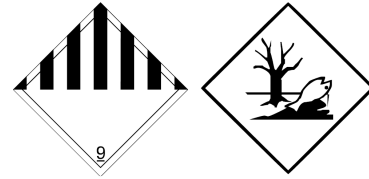
ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)  
IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper), MARINE POLLUTANT  
IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

#### 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.

Warning: Miscellaneous dangerous substances and articles.

#### 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 / 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

UN "Model Regulation": UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER), 9,III



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## SECTION 15. Regulatory information.

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

**Directive 2012/18/EU**

**Qualifying quantity (tons) for the application of lower-tier requirements** 100 t

**Qualifying quantity (tons) for the application of upper-tier requirements** 200 t

**National regulations:**

**Water hazard 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)
- Department issuing SDS:  
Safety Data Sheet Management Tel.: +.....  
E-Mail: .....
- 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 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- \* Data compared to the previous version altered.