

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878  
Version 4.0 Revision date: 27-01-2023  
Trade name: Brass powder natural

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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### 1.1 Product identification:

Product name: Brass powder natural.

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

Usage: Intermediate  
Additional part  
Uses advised against: No further relevant information available.

### 1.3 Details of the supplier of the safety data sheet

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### 1.4 Emergency telephone number:

For Belgium:  
Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.  
NHS 24 Direct  
For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### 2.1 Classification of the substance or mixture:

**Classification according to Directive (EC) No 1272/2008 and its amendments.**

Aquatic Acute 1 - H400 Very toxic to aquatic organisms.

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

### 2.2 Label elements:

The product is classified and labelled according to GHS (Globally Harmonised System).

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



### **Hazard pictograms:**

GHS09  
Warning

### **Signal word:**

### **Hazard warnings**

H410 Very toxic to aquatic life with long lasting effects.

### **Safety advice**

P273 Avoid release to the environment.

P391 Absorb spillages.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards:

Inhalation of dust or fumes will cause irritation of the respiratory tract. Inhalation of higher concentrations may cause fever.

### **Results of PBT and vPvB assessment:**

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PBT: Not applicable.  
vPvB: Not applicable.

**Determination of endocrine-disrupting properties:**  
None

## **SECTION 3: Composition and information on ingredients**

### 3.2 Mixtures:

#### **Description:**

Alloy consisting of the substances listed below.

#### **Hazardous components:**

<b>Chemical Name</b>	<b>Cas No. EC No/List Registration number</b>	<b>Layout (Regulation (EC) No 1272/008)</b>	<b>Concentration (%)</b>
Copper	CAS: 7440-50-8 EINECS: 231-159-6 Reg. No: 01-2119480154-42	Aquatic Acute 1, H400 (M = 1); Aquatic Chronic 3, H412	45 - 95%
Zinc	CAS: 7440-66-6 EINECS: 231-175-3 Reg. No: 01-2119467174-37	Aquatic Acute 1, H400 (M = 1); Aquatic Chronic 1, H410	2,5 - 55%
Silver	CAS: 7440-22-4 EINECS: 231-131-3 Reg. No: 01-2119555669-21	Substance with a Community workplace exposure limitation	0 - 5%
Aluminium	CAS : 7429-90-5 EINECS : 231-072-3 Reg. no. : 01-2119529243-45	Substance with a Community workplace exposure limitation	0 - 2%
Silicon	CAS : 7440-21-3 EINECS : 231-130-8 Reg. no. : 01-2119480401-47	Substance with a Community workplace exposure limitation	0 - 1%

#### **Non-hazardous components:**

<b>Chemical Name</b>	<b>Cas No. EC No/List Registration number</b>	<b>Layout (Regulation (EC) No 1272/008)</b>	<b>Concentration (%)</b>
Tin	CAS : 7440-31-5 EINECS : 231-141-8 Reg. no. : 01-2119486474-28		0 - 10%

Full text of abbreviations can be found in section 16.

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures:

#### **General information:**

No special measures required.

#### **After inhalation:**

Supply fresh air, consult a doctor in case of complaints.

#### **After skin contact:**

Wash skin with water/shower.

In general, the product is not irritating to the skin.

#### **After eye contact:**

Flush the opened eye with running water for several minutes.

Consult a doctor if the symptoms persist.

#### **After ingestion:**

Consult a doctor if the symptoms persist.

### 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: Fire-fighting measures**

### **5.1 Extinguishing media:**

#### **Suitable extinguishing media:**

Special powder for metal fires.  
Dry sand.

#### **Unsuitable extinguishing media:**

Do not use water.

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

#### **Specific firefighting hazards:**

No further relevant information available.

### **5.3 Advice for firefighters:**

#### **Special protective equipment:**

No special measures required.

## **SECTION 6: Accidental release measures for the substance or mixture**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

#### **Personal precautions :**

Prevent dust formation.  
Wear personal protective clothing.  
Do not breathe dust/fume/mist.

### **6.2 Environmental precautions:**

#### **Environmental precautions:**

Do not allow to enter sewers/surface water/groundwater.

### **6.3 Methods and material for containment and cleaning up**

#### **Cleaning methods:**

Mechanical pick-up.

### **6.4 Reference to other sections:**

See chapter 7 for information on safe use.  
See section 8 for information on personal protective equipment.

## **SECTION 7: Handling and storage:**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling:**

Avoid dust formation.

#### **Advice on fire and explosion protection :**

No special measures required.

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

#### **Requirements for storage rooms and containers:**

Store in a cool, dry place in tightly closed containers.

#### **Advice for mixed storage:**

Do not store together with oxidising and acidic materials.

#### **Further information on storage conditions:**

None.

### **7.3 Specific end use:**

No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

### **Additional information on the design of technical systems:**

No further information, see section 7.

### **8.1 Control parameters:**

**Components with limit values that require monitoring at the workplace:**

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<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>
	*fume **dusts and mists (as Cu)
<b>7440-22-4 Silver</b>	
WEL	Long-term value: 0.1 mg/m <sup>3</sup>
<b>7429-90-5 Aluminium</b>	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup>
	*inhalable dust **respirable dust
<b>7440-21-3 silicon</b>	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup>
	*inhalable dust **respirable dust

## DNEL-value

### Copper:

Short-term DNEL (man, systemic effects): 0.082 mg Cu/kg B wt/d  
DNEL long-term (human, systemic effects): 0.041 mg Cu/kg B wt/d  
Short-term NOAEL (human, oral, drinking water): 4 mg/l

## PNEC Value

### Copper:

PNEC aqua (freshwater): 7,8 µg/l  
PNEC aqua (marine water): 5,2 µg/l  
PNEC sediment (freshwater): 87 mg Cu/kg dry weight  
PNEC sediment (seawater): 676 mg Cu/kg dry weight

## Additional information:

The lists that were valid at the time of drafting were used as a basis.

## 8.2 Exposure controls:

### Appropriate engineering controls No further data:

see item 7

### Individual protection measures, such as personal protective equipment:

#### General protective and hygienic measures:

Wash hands before breaks and at the end of work.

#### Respiratory protection:

Respiratory protection recommended.

Filter P1 / P2 / P3

#### Hand protection:

Preventive protection of the skin by using a skin protection product is recommended.

#### 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
Physical state:	Solid
Colour:	Gold coloured
Odour:	Odourless
Melting point/freezing point:	800 - 1080°C
Boiling point or initial boiling point and boiling range:	Undetermined.
Flammability:	Not determined
Lower and upper explosion limit:	Not applicable
Flash point:	Not applicable

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Ignition temperature: Not applicable  
Decomposition temperature: Not applicable  
pH: Not applicable  
Viscosity: Not applicable

#### **Solubility**

Water: Insoluble.  
Partition coefficient n-octanol/water (log value): Not applicable  
Vapour pressure: Not applicable

#### **Density and/or relative density**

Density at 20°C: 8.0 - 8.9 g/cm<sup>3</sup>  
Bulk density: 3.0 - 4.5 g/cm<sup>3</sup>  
Relative gas density: Not applicable

#### **Particle characteristics**

Particle size: 1 - 500 µm

#### 9.2 Other information

##### **Information with regard to physical hazard classes**

Explosives : Void  
Flammable gases : Void  
Aerosols : Void  
Oxidising gases: Void  
Gases under pressure: Void  
Flammable liquids : Void  
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 gases  
in contact with water: Void  
Oxidising liquids: Void  
Oxidising solids: Void  
Organic peroxides: Void  
Corrosive to metals: Void  
Desensitised explosives: Void

#### **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 stored and handled as directed.

##### 10.3 Potentially hazardous reactions:

##### **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.

##### 10.4 Conditions to avoid

No further relevant information available.

##### 10.5 Chemically Interacting Materials:

No further relevant information available.

##### 10.6 Hazardous decomposition products:

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No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects:**

#### **Acute toxicity**

Based on the available data, the classification criteria are not met.

#### **LD/LC50 values relevant for classification:**

None.

#### **Skin corrosion/irritation.**

Based on the available data, the classification criteria are not met.

#### **Serious eye damage/irritation**

Based on the available data, the classification criteria are not met.

#### **Respiratory tract/skin sensitisation**

Based on the available data, the classification criteria are not met.

#### **Mutagenicity in germ cells**

Based on the available data, the classification criteria are not met.

#### **Carcinogenicity**

Based on the available data, the classification criteria are not met.

#### **Toxicity for reproduction**

Based on the available data, the classification criteria are not met.

#### **Specific target organ toxicity (single exposure)**

Based on the available data, the classification criteria are not met.

#### **Specific target organ toxicity by repeated exposure:**

Based on the available data, the classification criteria are not met.

#### **Aspiration hazard:**

Based on the available data, the classification criteria are not met.

#### **Additional toxicological information:**

Inhaling dust or fumes will cause irritation of the respiratory tract.

Inhalation of higher concentrations may cause fever.

#### **CMR effects (carcinogenic, mutagenic and toxic for reproduction)**

No further relevant information available.

### **11.2 Information on other hazards**

#### **Endocrine disrupting properties**

None of the ingredients is listed.

## **SECTION 12: Ecological information**

### **12.1 Toxicity:**

#### **Aquatic toxicity:**

Based on the available data, the classification criteria are not met.

### **12.2 Persistence and Degradability:**

No further relevant information available.

### **12.3 Bioaccumulation:**

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**

**Additional ecological information:**

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## General notes:

Do not allow product to reach ground water, water course or sewage system.

## **SECTION 13: Instructions for disposal**

### 13.1 Waste treatment methods:

#### **Recommendation:**

Contact the manufacturer for recycling.  
Must not be disposed of together with household rubbish.  
Do not allow to enter the sewage system.

#### **Uncleaned packaging:**

#### **Recommendation:**

Dispose of in accordance with official regulations.

## **SECTION 14: Information relating to carriage**

### 14.1 UN number

**ADR, IMDG, IATA** UN3077

### 14.2 Proper load name according to UN Model Regulations

**ADR** ENVIRONMENTALLY DANGEROUS SUBSTANCE, SOLID, N.O.S (copper)  
**IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)  
**IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

### 14.3 Transport hazard class(es)

**ADR, IMDG, IATA** Class 9 Miscellaneous hazardous substances and articles  
**Danger label** 9

### 14.4 Packing group

**ADR, IMDG, IATA** III

### 14.5 Environmental hazards

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

### 14.6 Special precautions for the user

**User warning:** Various hazardous substances and objects

**Kemler code:** 90

**EMS number:** F-A,S-F

**Segregation groups** not applicable

**Storage** category A

**Packing code** SW23 For transport 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 73/78 and the IBC Code

Not applicable.

## **Transport/ further information:**

These substances, when contained in individual or combination packagings of a net mass not exceeding 5 kg each or within a package are not subject to the other provisions of ADR/RID/IMDG, provided the packagings meet the general requirements of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

#### **ADR**

Exempted quantities (EQ): E1  
Limited quantity (LQ): 5 kg  
Exceptional Quantity (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: Not applicable

#### **IMDG**

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Limited quantities (LQ):	5 kg
Exceptional Quantity (EQ) Code:	E1
Maximum net quantity per inner packaging:	30 g
Maximum net quantity per outer packaging:	1000 g
UN "Model Regulation":	3077 ENVIRONMENTALLY DANGEROUS SUBSTANCES, SOLID, N.O.S., 9, III

## **SECTION 15: Legally required information**

15.1 Safety, health and environmental regulations and legislation specific to 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:**

**Water hazard class:**

Water hazard class 2 (D) (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**

(only for the explanation of H phrases mentioned in the safety data sheet, e.g. in chapter 3)

H400 Very toxic to aquatic organisms.  
H410 Very toxic to aquatic life with long lasting effects.

### **Data sheet issue area:**

Management of safety data sheets  
Telephone: +49 (0) 9152 / 9211 -846  
E-Mail: [sdb@kymerainternational.com](mailto:sdb@kymerainternational.com)

### **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:	European Agreement on the Transport 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 per cent
LD50:	Lethal dose, 50 per cent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative

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Aquatic Acute 1:              Hazardous to the aquatic environment - Acute 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.