



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# Bronze powder: sc-300305



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1 Identification of substance:

**Product Name:** Bronze powder  
**Catalog Number:** sc-300305  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### 2 Hazards identification

Classification of the substance or mixture



GHS07

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

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



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

Label elements

Labelling according to EU guidelines:

Code letter and hazard designation of product:  
Xi Irritant

**Risk phrases:**  
36/37/38 Irritating to eyes, respiratory system and skin.

**Safety phrases:**  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Hazard description:**  
WHMIS classification



Classification system  
HMIS ratings (scale 0-4)  
(Hazardous Materials Identification System)

HEALTH	1	Health (acute effects) = 1
FIRE	0	Flammability = 0
REACTIVITY	0	Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.  
vPvB: Not applicable.

### 3 Composition/information on ingredients

Chemical characterization: Substances

(CAS#) Description:

Copper (CAS# 7440-50-8); 90%  
Tin (CAS# 7440-31-5); 10%  
Bronze powder (CAS# 158113-12-3)

## 4 First aid measures

### Description of first aid measures

#### After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

#### After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek immediate medical advice.

## 5 Firefighting measures

### Extinguishing media

Suitable extinguishing agents Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents Water

### Advice for firefighters

#### Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

### Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up: Ensure adequate ventilation.

### 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.

## 7 Handling and storage

### Handling

#### Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires: No special measures required.

### Conditions for safe storage, including any incompatibilities

#### Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from oxidizing agents.

### Further information about storage conditions:

Keep container tightly sealed. Store at room temperature.

Store in cool, dry conditions in well sealed containers.

## 8 Exposure controls/personal protection

### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

### Control parameters

Components with limit values that require monitoring at the workplace:

Copper

	mg/m <sup>3</sup>
ACGIH TLV	1 (dust, mist) 0.2 (fume)
Austria MAK	1 0.1 (fume)
Belgium TWA	0.2 (fume) 1 (dust)
Denmark TWA	0.1
Finland TWA	0.2 (fume) 1 (dust)
France VME	0.1 (fume) 1 (dust)
Germany MAK	1; 2-STEL (dust) 0.1 (fume) 1 (dust)

Hungary TWA 0.2; 0.4-STEL (dust)  
 Korea TLV 1 (dust, mist)  
 0.2 (fume)  
 Netherlands MAC-TGG 1 (dust)  
 Norway TWA 0.05  
 0.1 (fume)  
 Poland TWA 0.1; 0.3-STEL (fume)  
 1; 2-STEL (dust)  
 Russia 1-STEL (dust)  
 Sweden NGV 0.2 (resp. dust)  
 1 (total dust)  
 Switzerland MAK-W 0.1; 0.2-KZG-W (fume)  
 1; 1-KZG-W  
 United Kingdom TWA 0.2 (fume)  
 1; 2-STEL (dust, mist)  
 1; 3-STEL  
 USA PEL TWA 0.1 (fume)  
 1 (dust, mist)

Tin metal, oxide and inorganic compounds, except tin hydride, as Sn  
 mg/m<sup>3</sup>

ACGIH TLV 2  
 Austria MAK 2  
 Belgium TWA 2  
 Denmark TWA 2  
 Finland TWA 2  
 Germany MAK 2  
 Hungary TWA 1; 2-STEL (skin)  
 Korea TLV 2  
 Netherlands MAC-TGG 2  
 Norway TWA 1  
 Poland TWA 2  
 Switzerland MAK-W 2; 4-KZG-W  
 United Kingdom TWA 2; 4-STEL  
 USA PEL 2

**Additional information:** No data

**Exposure controls**

**Personal protective equipment**

**General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Breathing equipment:** Use suitable respirator when high concentrations are present.

**Protection of hands:** Impervious gloves

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing.

**9 Physical and chemical properties**

<b>Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance:</b>	
Form:	Powder
Formula:	182.26
Weight:	Cu:Sn; 90:10 wt%
pH-value:	Not applicable.
<b>Change in condition</b>	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined
Flash point:	Not applicable
Flammability (solid, gaseous)	Not determined.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not applicable.

<b>Density:</b>	Not determined
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with Water:</b>	Insoluble
<b>Segregation coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>dynamic:</b>	Not applicable.
<b>kinematic:</b>	Not applicable.
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

### Reactivity

#### Chemical stability

#### Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Metal oxide fume

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

#### Subacute to chronic toxicity:

Tin metal dust/fumes and inorganic tin compounds may cause nausea, vomiting, diarrhea, irritation and pneumoconiosis. Most inorganic tin compounds are poorly absorbed by the body when ingested or inhaled.

Copper compounds may be irritating to the skin, eyes and respiratory tract. They may cause metal fume fever, hemolysis of the red blood cells and injury to the liver, lungs, kidneys and pancreas. Ingestion may also cause vomiting, gastric pain, dizziness, anemia, cramps, convulsions, shock, coma and death.

#### Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

## 12 Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

#### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

#### Additional ecological information:

#### General notes:

Do not allow material to be released to the environment without proper governmental permits.

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

**Recommendation** Consult state, local or national regulations to ensure proper disposal.

#### Uncleaned packagings:

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

#### 14 Transport information

Not a hazardous material for transportation.

<b>DOT regulations:</b> <b>Hazard class:</b> None
<b>Land transport ADR/RID (cross-border)</b> <b>ADR/RID class:</b> None
<b>Maritime transport IMDG:</b> <b>IMDG Class:</b> None <b>Marine pollutant:</b> No
<b>Air transport ICAO-TI and IATA-DGR:</b> <b>ICAO/IATA Class:</b> None

**Special precautions for user** Not applicable.

**Transport/Additional information:** Not dangerous according to the above specifications.  
**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

#### 15 Regulatory information

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

**Product related hazard informations:**

**Hazard symbols:**

Xi Irritant

**Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

**Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

**Information about limitation of use:**

For use only by technically qualified individuals.

This product contains copper and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### 16 Other information:

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

10/10/2012