

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

## STANDART Lac E 900 Deep Gold Bronze Powder

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

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

#### 1.1 Product identifier

Trade name : STANDART Lac E 900 Deep Gold Bronze Powder  
Material number : 063408C20

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

This information is not available.

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

Company : ECKART Suisse SA  
Route de la Brasserie 2  
1963 Vétroz  
Telephone : +410273454800  
Telefax : +410273454859  
E-mail address : msds.eckart@altana.com  
Responsible/issuing person

#### 1.4 Emergency telephone number

**NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

### SECTION 2: Hazards identification

#### GHS Classification

: Flammable solids, Category 1, H228  
Acute toxicity, Category 4, Oral, H302  
Serious eye damage/eye irritation, Category 2A, H319

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## STANDART Lac E 900 Deep Gold Bronze Powder

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

Short-term (acute) aquatic hazard, Category 1, H400  
Long-term (chronic) aquatic hazard, Category 1, H410

### GHS-Labeling

Symbol(s)



Signal word

: Danger

Hazard statements

: H228: Flammable solid.  
H302: Harmful if swallowed.  
H319: Causes serious eye irritation.  
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P370 + P378 In case of fire: Use for extinction: Special powder for metal fires.  
P370 + P378 In case of fire: Use for extinction: Dry sand.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous components which must be listed on the label

Identification  
copper

CAS-No.  
7440-50-8

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## STANDART Lac E 900 Deep Gold Bronze Powder

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

### SECTION 3: Composition/information on ingredients

Substance name : Bronze Powder AT Rich Pale

Substance No. :

#### Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
Copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	60 - 100
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	5 - 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : Move the victim to fresh air.  
Do not leave the victim unattended.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water.

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

In case of eye contact	: If on skin, rinse well with water. If on clothes, remove clothes. : Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

This information is not available.

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

This information is not available.

**SECTION 5: Firefighting measures**
**5.1 Extinguishing media**

Suitable extinguishing media	: Special powder against metal fire, Dry sand, ABC powder
Unsuitable extinguishing media	: Water, High volume water jet

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

Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
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**5.3 Advice for firefighters**

Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Evacuate personnel to safe areas.  
Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Remove all sources of ignition.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Use mechanical handling equipment.  
Pick up and transfer to properly labelled containers.  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For personal protection see section 8.

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

**SECTION 7: Handling and storage**
**7.1 Precautions for safe handling**

Advice on safe handling : Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : General industrial hygiene practice. Do not smoke. Wash hands before breaks and at the end of workday. Keep away from food and drink. Keep away from tobacco products.

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

No smoking. Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

must comply with the technological safety standards.

- Further information on storage conditions : Protect from humidity and water.
- Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.
- Dampness : Keep in a dry, cool and well-ventilated place.
- Other data : Keep in a dry place. No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

This information is not available.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Germany:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	AGW (inhalable fraction)	1 mg/m <sup>3</sup>		DE TRGS 900
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## STANDART Lac E 900 Deep Gold Bronze Powder

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				

### United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	TWA	1 mg/m <sup>3</sup>	2008-01-01	
Copper	7440-50-8	TWA (dust and mists)	1 mg/m <sup>3</sup>	2005-09-01	
Copper	7440-50-8	TWA	1 mg/m <sup>3</sup>	1989-01-19	
Copper	7440-50-8	TWA	0,2 mg/m <sup>3</sup>	2008-01-01	
Copper	7440-50-8	TWA	0,1 mg/m <sup>3</sup>	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m <sup>3</sup>	2010-03-01	
Copper	7440-50-8	TWA (Fumes)	0,2 mg/m <sup>3</sup>	2010-03-01	
Copper	7440-50-8	TWA (Dust)	1 mg/m <sup>3</sup>	2013-10-08	
Copper	7440-50-8	TWA (Mist)	1 mg/m <sup>3</sup>	2013-10-08	
Copper	7440-50-8	TWA (dusts and mists)	1 mg/m <sup>3</sup>	2011-07-01	
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m <sup>3</sup>	2011-07-01	
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m <sup>3</sup>	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m <sup>3</sup>	1989-01-19	
Copper	7440-50-8	PEL (Fumes)	0,1 mg/m <sup>3</sup>	2014-11-26	
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (total dust)	15 mg/m <sup>3</sup>	2012-07-01	
zinc powder	7440-66-6	TWA (respirable)	5 mg/m <sup>3</sup>	2012-07-01	



**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

— zinc dust (stabilised)		fraction)			
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
zinc powder — zinc dust (stabilised)	7440-66-6	PEL (Total dust)	10 mg/m <sup>3</sup>	2014-11-26	
zinc powder — zinc dust (stabilised)	7440-66-6	PEL (respirable dust fraction)	5 mg/m <sup>3</sup>	2014-11-26	

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Safety glasses  
: Wear face-shield and protective suit for abnormal processing problems.

### Hand protection

Material : Leather  
Remarks : Leather gloves

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

### Recommended preventive skin protection

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Long sleeved clothing

Safety shoes

: Dust impervious protective suit

Choose body protection according to the amount and

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

Respiratory protection : concentration of the dangerous substance at the work place.  
 : Use suitable breathing protection if workplace concentration  
 requires.  
 Respirator with a dust filter  
 P1 filter

**Environmental exposure controls**

General advice :  
 : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform  
 respective authorities.  
 Water : The product should not be allowed to enter drains, water  
 courses or the soil.  
 :

**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

Appearance : powder  
 Colour : gold  
 Odour : odourless  
 pH : No data available  
 Freezing point : No data available  
 Boiling point/boiling range : No data available  
 Flash point : No data available  
 Bulk density : No data available  
 Flammability (solid, gas) : The substance or mixture is a flammable solid  
 with the category 1.

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: No data available
Water solubility	: No data available
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

**9.2 Other information**

No data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**No decomposition if stored and applied as directed.****10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Stable under recommended storage conditions., No hazards

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

to be specially mentioned.

No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

**10.4 Conditions to avoid**Conditions to avoid : No data available  
Heat, flames and sparks.**10.5 Incompatible materials**

Materials to avoid : No data available

**10.6 Hazardous decomposition products**

Other information : No data available

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Components:****Copper :**Acute oral toxicity : The component/mixture is moderately toxic after single  
ingestion.**zinc powder — zinc dust (stabilised) :**

Acute oral toxicity : Rat: &gt; 2 000 mg/kg

**Skin corrosion/irritation****Product**

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation****Product**

Eye irritation

**Respiratory or skin sensitisation**

No data available

**Carcinogenicity**

No data available

**Toxicity to reproduction/fertility**

No data available

**Reprod.Tox./Development/Teratogenicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

**Further information****Product**

No data available

**SECTION 12: Ecological information****12.1 Toxicity****Components:****copper (7440-50-8) :**

M-Factor : 10

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**zinc (7440-66-6) :****Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

## STANDART Lac E 900 Deep Gold Bronze Powder

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods


Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
In accordance with local and national regulations.

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## SECTION 14: Transport information

### 14.1 UN number

Page 15 / 19	10200000497	A member of  <b>ALTANA</b>
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**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

ADR : 3089  
TDG : 3089  
CFR : 3089  
IMDG : 3089  
IATA : 3089

**14.2 Proper shipping name**

ADR : METAL POWDER, FLAMMABLE, N.O.S.  
(Gold bronze powder ,Copper metal powder)  
TDG : METAL POWDER, FLAMMABLE, N.O.S.  
(Gold bronze powder )  
CFR : METAL POWDERS, FLAMMABLE, N.O.S.  
(Gold bronze powder )  
IMDG : METAL POWDER, FLAMMABLE, N.O.S.  
(,Gold bronze powder ,Copper metal powder)  
IATA : METAL POWDER, FLAMMABLE, N.O.S.

**14.3 Transport hazard class**

ADR : 4.1  
TDG : 4.1  
CFR : 4.1  
IMDG : 4.1  
IATA : 4.1

**14.4 Packing group**

ADR  
Packaging group : II  
Classification Code : F3  
Hazard Identification Number : 40  
Labels : 4.1



**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

Tunnel restriction code : (E)

**TDG**

Packaging group : II

Labels : 4.1

**CFR**

Packaging group : II

Labels : 4.1

**IMDG**

Packaging group : II

Labels : 4.1

EmS Number : F-G, S-G

**IATA**Packing instruction (cargo  
aircraft) : 448Packing instruction  
(passenger aircraft) : 445

Packing instruction (LQ) : Y441

Packaging group : II

Labels : 4.1

**14.5 Environmental hazards****ADR** : Environmentally hazardous**IMDG** : Marine pollutant**14.6 Special precautions for user****IMDG Code- segregation group:**

: IMDG Code segregation group 7 - Heavy metals and their salts

: IMDG Code segregation group 15 - Powdered metals

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

## STANDART Lac E 900 Deep Gold Bronze Powder

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

### 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

### Full text of H-Statements

H228 : Flammable solid.  
H302 : Harmful if swallowed.  
H319 : Causes serious eye irritation.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STANDART Lac E 900 Deep Gold Bronze Powder**

Version 4.0

Revision Date 04.12.2019

Print Date 15.04.2024

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