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

STANDART Lac E 900 Deep Gold Bronze Powder

Revision Date 04.12.2019 Version 4.0 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

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Short-term (acute) aquatic hazard, Category 1, H400 Long-term (chronic) aquatic hazard, Category 1, H410
Danger
Danger
Danger
H228: Flammable solid. H302: Harmful if swallowed. H319: Causes serious eye irritation. H410: Very toxic to aquatic life with long lasting effects.
 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 wast disposal plant.

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Identification	CAS-No.
copper	7440-50-8

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SECTION 3: Composition/information on ingredients

Substance name

: Bronze Powder AT Rich Pale

Substance No.

Hazardous components

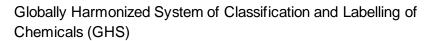
Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
Copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	60 - 100
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	5 - 10

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 If inhaled In case of skin contact	 Move the victim to fresh air. Do not leave the victim unatten Move out of dangerous area. Show this safety data sheet to If unconscious, place in recove advice. If symptoms persist, call a phys Wash off immediately with soap 	the doctor in attendance. ry position and seek medical sician.
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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.
	lf 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

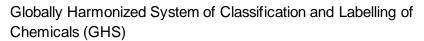
5.1 Extinguishing media

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.

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.	

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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, protectiv	e 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 cont	ainment 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 sect	ion 8.

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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 the technological safety standa	
	Keep away from sources of igr store near combustible materia closed in a cool, well-ventilated quality, do not store in heat or c	ls. Keep containers tightly place. To maintain product
	No smoking. Keep container tig ventilated place. Electrical insta	
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	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/m3		DE TRGS 900
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information			dangerous substa ounds at the work p on).		

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zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further information Commission for dangerous substances Senate commission for review of compounds at the work place dangerous for the heat (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/m3	2008-01-01	
Copper	7440-50-8	TWA (dust and mists)	1 mg/m3	2005-09-01	
Copper	7440-50-8	TWA	1 mg/m3	1989-01-19	
Copper	7440-50-8	TWA	0,2 mg/m3	2008-01-01	
Copper	7440-50-8	TWA	0,1 mg/m3	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	2010-03-01	
Copper	7440-50-8	TWA (Fumes)	0,2 mg/m3	2010-03-01	
Copper	7440-50-8	TWA (Dust)	1 mg/m3	2013-10-08	
Copper	7440-50-8	TWA (Mist)	1 mg/m3	2013-10-08	
Copper	7440-50-8	TWA (dusts and mists)	1 mg/m3	2011-07-01	
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	2011-07-01	
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	1989-01-19	
Copper	7440-50-8	PEL (Fumes)	0,1 mg/m3	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/m3	2012-07-01	
zinc powder	7440-66-6	TWA (respirable	5 mg/m3	2012-07-01	



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— 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/m3	2014-11-26	
zinc powder — zinc dust (stabilised)	7440-66-6	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	

8.2 Exposure controls

Personal	protective	equipment
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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	
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Respiratory protection	 concentration of the dangerous sub Use suitable breathing protection if requires. 	•
	Respirator with a dust filter P1 filter	
Environmental exposure	controls	
General advice	: Drevent product from entering drein	_
	: Prevent product from entering drain: Prevent further leakage or spillage i	
	If the product contaminates rivers an respective authorities.	
Water	: The product should not be allowed t courses or the soil.	o enter drains, water
	:	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	powder
Colour	:	gold
Odour	:	odourless
рН	:	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.

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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

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

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	to be specially mentioned.	
	No decomposition if stored and appl	lied as directed.
	Dust may form explosive mixture in a	air.
10.4 Conditions to avoid		
Conditions to avoid	: No data available	
10.5 Incompatible materials	Heat, flames and sparks.	
Materials to avoid	: No data available	
10.6 Hazardous decomposition	products	
Other information	: No data available	
SECTION 11: Toxicological	information	
11.1 Information on toxicologic	al effects	
Acute toxicity		
Components:		
Copper : Acute oral toxicity	: The component/mixture is moderate ingestion.	ly toxic after single
zinc powder — zinc dust (stabilised) :	
Acute oral toxicity	: Rat: > 2 000 mg/kg	
Skin corrosion/irritation		
<u>Product</u>		
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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

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Further information

Product No data available

SECTION 12: Ecological information

12.1 Toxicity

<u>Components:</u> copper (7440-50-8) : M-Factor Ecotoxicology Assessment	: 10
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard zinc (7440-66-6) :	: Very toxic to aquatic life with long lasting effects.
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

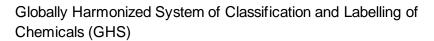
No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

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No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

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

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.

SECTION 14: Transport information

14.1 UN number

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ADR	: 3089	
TDG	: 3089	
CFR	: 3089	
IMDG	: 3089	
ΙΑΤΑ	: 3089	
14.2 Proper shipping name		
ADR	: METAL POWDER, FLAMMAB	LE, N.O.S.
	(Gold bronze powder ,Copper ı	metal powder)
TDG	: METAL POWDER, FLAMMABI	LE, N.O.S.
	(Gold bronze powder)	
CFR	: METAL POWDERS, FLAMMA	BLE, N.O.S.
	(Gold bronze powder)	
IMDG	: METAL POWDER, FLAMMABI	LE, N.O.S.
	(,Gold bronze powder ,Copper	metal powder)
ΙΑΤΑ	: METAL POWDER, FLAMMABI	LE, N.O.S.
14.3 Transport hazard class		
ADR	: 4.1	
TDG	: 4.1	
CFR	: 4.1	
IMDG	: 4.1	
ΙΑΤΑ	: 4.1	
14.4 Packing group		
ADR		
Packaging group	: 11	
Classification Code	: F3	
Hazard Identification Number	: 40	
Labels	: 4.1	
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Tunnel restriction code	: (E)	
TDG		
Packaging group	: 11	
Labels	: 4.1	
CFR		
Packaging group	: 11	
Labels	: 4.1	
IMDG		
Packaging group	: 11	
Labels	: 4.1	
EmS Number	: F-G, S-G	
ΙΑΤΑ		
Packing instruction (cargo aircraft)	: 448	
Packing instruction (passenger aircraft)	: 445	
Packing instruction (LQ)	: Y441	
Packaging group	: 11	
Labels	: 4.1	
4.5 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

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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 : Not applicable Concern for Authorisation (Article 59).

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.

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