according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : STANDART Lac G 900 Pale Gold Bronze Powder

Product code : 0600978G0

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 :

E-mail address of person responsible for the SDS

: msds.eckart@altana.com

#### 1.4 Emergency telephone number

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1 H228: Flammable solid.

Acute toxicity, Category 4 H302: Harmful if swallowed.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Short-term (acute) aquatic hazard,

Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, H410: Very toxic to aquatic life with long lasting

Category 1 effects.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





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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.

Response:

P337 + P313 If eye irritation persists: Get medical advice/

attention.

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.

Hazardous components which must be listed on the label:

Copper

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

### 3.2 Mixtures

#### **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC)	(% w/w)
	Index-No.	No 1272/2008	
	Registration number		
Copper	7440-50-8	Acute Tox. 4; H302	>= 50 - <= 100
	231-159-6	Eye Irrit. 2; H319	
		Aquatic Acute 1;	
	01-2119480154-42	H400	
		Aquatic Chronic 1;	
		H410	
zinc powder — zinc dust	7440-66-6	Aquatic Acute 1;	>= 2.5 - < 10
(stabilised)	231-175-3	H400	
		Aquatic Chronic 1;	
	01-2119467174-37	H410	
amines, hydrogenated tallow	61788-45-2	Skin Irrit. 2; H315	>= 0.1 - < 0.25
alkyl	(90640-32-7)	Eye Dam. 1; H318	

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262-976-6 STOT RE 2; H373
Asp. Tox. 1; H304
Aquatic Acute 1;
H400
Aquatic Chronic 1;
H410

For explanation of abbreviations 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.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : 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

Risks : Harmful if swallowed.

Causes serious eye irritation.

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

This information is not available.

according to Regulation (EC) No. 1907/2006



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## **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.

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.

according to Regulation (EC) No. 1907/2006



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## 6.3 Methods and material 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.

### **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.

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

Further information on

storage stability

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

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Copper	7440-50-8	TWA (Fumes)	0.2 mg/m3	GB EH40
			(Copper)	
		TWA (Dusts and	1 mg/m3	GB EH40
		mists)	(Copper)	
		STEL (Dusts and	2 mg/m3	GB EH40
		mists)	(Copper)	
zinc powder — zinc	7440-66-6	TWA (Inhalable)	10 mg/m3	GB EH40
dust (stabilised)				
Further information	The COSHH definition of a substance hazardous to health includes dust of			
	any kind when present at a concentration in air equal to or greater than 10			
	mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable			
	dust. This means that any dust will be subject to COSHH if people are			
	exposed to dust above these levels. Some dusts have been assigned			
	specific WELs and exposure to these must comply with the appropriate			
	limits., Where no specific short-term exposure limit is listed, a figure three			
	times the long-term exposure limit should be used.			
		TWA	4 mg/m3	GB EH40
		(Respirable)		
Further information	The COSHH definition of a substance hazardous to health includes dust of			
	any kind when present at a concentration in air equal to or greater than 10			
	mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable			
	dust. This means that any dust will be subject to COSHH if people are			
	exposed to dust above these levels. Some dusts have been assigned			

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specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Copper	Workers	Skin contact	Acute systemic effects	273 mg/kg
	Workers	Inhalation	Acute systemic effects	20 mg/m3
	Workers	Skin contact	Long-term systemic effects	137 mg/kg
	Consumers	Skin contact	Acute systemic effects	273 mg/kg
	Consumers	Inhalation	Acute systemic effects	20 mg/m3
zinc powder — zinc dust (stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Copper	Soil	65.5 mg/kg
	Fresh water	0.0078 mg/l
	Fresh water sediment	87 mg/kg
	Marine water	0.0052 mg/l
	Marine sediment	676 mg/kg
	STP	0.230 mg/l
zinc powder — zinc dust (stabilised)	Fresh water	0.0206 mg/l
	Fresh water sediment	117.8 mg/kg
	Marine water	0.0061 mg/l
	Soil	35.6 mg/kg
	Marine sediment	56.5 mg/kg

#### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

Wear face-shield and protective suit for abnormal processing

problems.

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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 concentration of the dangerous substance at the work place.

Respiratory protection Use suitable breathing protection if workplace concentration

requires.

Respirator with a dust filter

P1 filter

**Environmental exposure controls** 

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

Odour Threshold : No data available

pΗ : No data available

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

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Evaporation rate : No data available

Flammability (solid, gas) : The substance or mixture is a flammable solid with the

category 1.

Self-ignition : No data available

Auto-ignition temperature : No data available

Smoldering temperature : No data available

Decomposition temperature : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit

: No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Bulk density : No data available

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Decomposition temperature : 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

according to Regulation (EC) No. 1907/2006



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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 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

#### 10.6 Hazardous decomposition products

Contact with water or humid

: This information is not available.

air

Thermal decomposition : This information is not available.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

Harmful if swallowed.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 563.53 mg/kg

Method: Calculation method

#### **Components:**

Copper:

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Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

zinc powder — zinc dust (stabilised):

Acute oral toxicity : (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

amines, hydrogenated tallow alkyl:

Acute oral toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg

Method: OECD Test Guideline 401

Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Remarks: May cause skin irritation in susceptible persons.

**Components:** 

Copper:

Remarks: May cause skin irritation in susceptible persons.

amines, hydrogenated tallow alkyl:

Result: Skin irritation

Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Remarks: Eye irritation

**Components:** 

Copper:

Result: Eye irritation

amines, hydrogenated tallow alkyl:

Result: Irreversible effects on the eye

Remarks: May cause irreversible eye damage.

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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

## **Components:**

#### amines, hydrogenated tallow alkyl:

Target Organs: Liver, Gastrointestinal tract, Immune system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

#### amines, hydrogenated tallow alkyl:

May be fatal if swallowed and enters airways.

#### **Further information**

### Product:

Remarks: No data available

#### **Components:**

#### Copper:

Remarks: No data available

#### zinc powder — zinc dust (stabilised):

Remarks: No data available

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### amines, hydrogenated tallow alkyl:

Remarks: Solvents may degrease the skin.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Components:

#### Copper:

M-Factor (Short-term (acute) : 10

aquatic hazard)

#### **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 powder — zinc dust (stabilised):

#### **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.

#### amines, hydrogenated tallow alkyl:

M-Factor (Short-term (acute) : 10

aquatic hazard)

10

M-Factor (Long-term

(chronic) aquatic hazard)

**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

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#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment This substance/mixture contains no components considered

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

#### 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.

## Components:

Copper:

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.

## zinc powder - zinc dust (stabilised):

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.

### amines, hydrogenated tallow alkyl:

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.

## **SECTION 13: Disposal considerations**

European Waste Catalogue 12 01 04 - non-ferrous metal dust and particles

European Waste Catalogue 10 03 21 - other particulates and dust (including ball-mill dust)

containing hazardous substances

13.1 Waste treatment methods

Product The product should not be allowed to enter drains, water

courses or the soil.

according to Regulation (EC) No. 1907/2006



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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

 ADR
 : UN 3089

 IMDG
 : UN 3089

 IATA
 : UN 3089

14.2 UN proper shipping name

**ADR** : METAL POWDER, FLAMMABLE, N.O.S.

(Gold bronze powder, Copper metal 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(es)

**ADR** : 4.1 **IMDG** : 4.1 **IATA** : 4.1

### 14.4 Packing group

## **ADR**

Packing group : II
Classification Code : F3
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)

**IMDG** 

Packing group : II Labels : 4.1 EmS Code : F-G, S-G

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

salts, IMDG Code segregation group 15 - Powdered metals

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IATA (Cargo)

Packing instruction (cargo : 448

aircraft)

Packing instruction (LQ) : Y441
Packing group : II

Labels : Division 4.1 - Flammable solids

IATA (Passenger)

Packing instruction : 445

(passenger aircraft)

Packing instruction (LQ) : Y441
Packing group : II

Labels : Division 4.1 - Flammable solids

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

#### **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

#### **SECTION 16: Other information**

### **Full text of H-Statements**

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

H373 : May cause damage to organs through prolonged or repeated

exposure.

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H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Eve Dam. : Serious eve damage

Eye Irrit. : Eye irritation Skin Irrit. : Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

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

according to Regulation (EC) No. 1907/2006



# STANDART Lac G 900 Pale Gold Bronze Powder

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