according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

Version Revision Date: SDS Number: Print Date: 08.08.2020 2.0

102000028875 12.12.2019 Date of first issue: 08.02.2018

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

1.1 Product identifier

Trade name STANDART Lac LT Copper Powder

Product code 061243C20

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)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 3 H331: Toxic if inhaled.

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



Signal word Danger

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

 Version
 Revision Date:
 SDS Number:
 Print Date:
 08.08.2020

 2.0
 12.12.2019
 102000028875
 Date of first issue:
 08.02.2018

Hazard statements : H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/

vapours/ spray.

P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

Response:

P304 + P340 + P311 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call

a POISON CENTER/doctor.

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

attention.

Storage:

P403 + P233 Store in a well-ventilated place. Keep

container tightly closed.

Hazardous components which must be listed on the label: copper flakes (coated with aliphatic acid)

2.3 Other hazards

Combustible Solids

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

3.1 Substances

Substance name : copper flakes (coated with aliphatic acid)

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC)	(% w/w)
	Index-No.	No 1272/2008	
	Registration number		
copper flakes (coated with	Not Assigned	Acute Tox. 4; H302	>= 50 - <= 100
aliphatic acid)		Acute Tox. 3; H331	
	029-019-01-X	Eye Irrit. 2; H319	
		Aquatic Acute 1;	
		H400	
		Aquatic Chronic 1;	
		H410	

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

 Version
 Revision Date:
 SDS Number:
 Print Date:
 08.08.2020

 2.0
 12.12.2019
 102000028875
 Date of first issue:
 08.02.2018

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.

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.

Toxic if inhaled.

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

Water

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during : Do not allow run-off from fire fighting to enter drains or water

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

 Version
 Revision Date:
 SDS Number:
 Print Date:
 08.08.2020

 2.0
 12.12.2019
 102000028875
 Date of first issue:
 08.02.2018

firefighting 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.

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.

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 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.

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

Version Revision Date: SDS Number: Print Date: 08.08.2020

2.0 12.12.2019 102000028875 Date of first issue: 08.02.2018

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.

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.

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.

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

Version Revision Date: SDS Number: Print Date: 08.08.2020

2.0 12.12.2019 102000028875 Date of first issue: 08.02.2018

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 flakes (coated with aliphatic acid)	Not Assigned	TWA (Fumes)	0.2 mg/m3 (Copper)	GB EH40
		TWA (Dusts and mists)	1 mg/m3 (Copper)	GB EH40
		STEL (Dusts and mists)	2 mg/m3 (Copper)	GB EH40

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

Substance name	Environmental Compartment	Value
copper flakes (coated with	Soil	65.5 mg/kg
aliphatic acid)		
	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

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

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

 Version
 Revision Date:
 SDS Number:
 Print Date:
 08.08.2020

 2.0
 12.12.2019
 102000028875
 Date of first issue:
 08.02.2018

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 : copper

Odour : odourless

Odour Threshold : No data available

pH : No data available

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

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

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

 Version
 Revision Date:
 SDS Number:
 Print Date:
 08.08.2020

 2.0
 12.12.2019
 102000028875
 Date of first issue:
 08.02.2018

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

Solubility(ies)

Water solubility : immiscible

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

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.

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

 Version
 Revision Date:
 SDS Number:
 Print Date:
 08.08.2020

 2.0
 12.12.2019
 102000028875
 Date of first issue:
 08.02.2018

10.4 Conditions to avoid

Conditions to avoid : No data available

No data available

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. Toxic if inhaled.

Components:

copper flakes (coated with aliphatic acid):

Acute oral toxicity : LD50 Oral (Rat, male and female): 300 - 500 mg/kg

Method: OECD Test Guideline 423

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat, male): 0.7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Causes serious eye irritation.

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

Version Revision Date: SDS Number: Print Date: 08.08.2020

2.0 12.12.2019 102000028875 Date of first issue: 08.02.2018

Product:

Remarks: Eye irritation

Components:

copper flakes (coated with aliphatic acid):

Result: Eye irritation

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.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

copper flakes (coated with aliphatic acid):

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

aquatic hazard)

Ecotoxicology Assessment

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

hazard

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

Version Revision Date: SDS Number: Print Date: 08.08.2020

2.0 12.12.2019 102000028875 Date of first issue: 08.02.2018

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

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.

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.

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.

In accordance with local and national regulations.

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

Version Revision Date: SDS Number: Print Date: 08.08.2020 12.12.2019 102000028875 2.0 Date of first issue: 08.02.2018

SECTION 14: Transport information

14.1 UN number

ADR UN 3077 IMDG UN 3077 IATA **UN 3077**

14.2 UN proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Copper metal powder)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Copper metal powder)

IATA Environmentally hazardous substance, solid, n.o.s.

(Copper metal powder)

14.3 Transport hazard class(es)

ADR 9 **IMDG** 9 IATA 9

14.4 Packing group

ADR

Packing group Ш Classification Code M7 Hazard Identification Number : 90 Labels 9

IMDG

Packing group Ш Labels 9 EmS Code F-A. S-F

Remarks IMDG Code segregation group 7 - Heavy metals and their

salts

IATA (Cargo)

Packing instruction (cargo 956

aircraft)

Packing instruction (LQ) Y956 Packing group Ш

Labels Class 9 - Miscellaneous dangerous substances and articles

IATA (Passenger)

Packing instruction 956

(passenger aircraft)

Y956 Packing instruction (LQ) Packing group Ш

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

 Version
 Revision Date:
 SDS Number:
 Print Date:
 08.08.2020

 2.0
 12.12.2019
 102000028875
 Date of first issue:
 08.02.2018

Labels : Class 9 - Miscellaneous dangerous substances and articles

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks : For single packagings <=5L / 5 kg, or combination

packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197

IATA-DGR may be applied.

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 other abbreviations

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

according to Regulation (EC) No. 1907/2006



STANDART Lac LT Copper Powder

 Version
 Revision Date:
 SDS Number:
 Print Date:
 08.08.2020

 2.0
 12.12.2019
 102000028875
 Date of first issue:
 08.02.2018

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 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.

GB / EN