

# SAFETY DATA SHEET

## Copper Carbonate 213/

according to 1907/2006/EC, Article 31

### 1.0 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name:	COPPER CARBONATE 213/
Article number:	13410
CAS number:	12069-69-1
EC number:	235-113-6
Registration number:	01-2119513711-50-0004

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

No further relevant information available.

Application of the substance / the preparation:	Electroplating auxiliary. Catalyst.
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#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:	Carl Jäger Tonindustriebedarf GmbH In den Erlen 4 D-56206 Hilgert
Tel.:	+49 26 24 94 169-0
Fax:	+49 26 24 94 169-29
E-Mail:	info@carl-jaeger.de

#### 1.4 Emergency telephone: +49 26 24 94 169-0

### 2.0 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classification according to Regulation  
(EC) No 1272/2008:



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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



Xn; Harmful.

R22:

Harmful if swallowed.



N; Dangerous for the environment

R50:

Very toxic to aquatic organisms.

### Label elements

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms:

Signal word:

Hazard-determining components of labelling:

Hazard statements:

Precautionary statements:

The substance is classified and labelled according to the CLP regulation.



GHS07



GHS09

Warning.

Copper(II) carbonate--copper(II) hydroxid (1:1).

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

P273 Avoid release to the environment.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization:

CAS No. Designation:

**Identification number(s)**

EC number:

Description:

Substances.

12069-69-1 copper(II) carbonate--copper(II) hydroxide (1:1).

235-113-6.

Mixture consisting of the following components.

## 4.0 FIRST AID MEASURES

### Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air; consult doctor in case of symptoms.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

After swallowing:

Instantly call for doctor.

### Information for doctor

Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical

attention and special treatment needed: No further relevant information available.

## 5.0 FIRE FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from the substance or mixture:

Can be released in case of fire: -carbon dioxide, carbon monoxide copper oxides.

**Advice for firefighters**

Protective equipment:

Put on breathing apparatus.

## 6.0 ACCIDENTAL RELEASE MEASURES

Person-related safety precautions, protective equipment and emergency procedures:

Environmental precautions:

Avoid causing dust. Wear protective clothing.

Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water or sewage system.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

Reference to other sections:

See Section 8 for information on personal protection equipment.

## 7.0 HANDLING AND STORAGE

### Handling

Precautions for safe handling:

Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.

Information about protection against explosions and fires:

The product is not flammable.

### Conditions for safe storage, including any incompatibilities

#### Storage

Requirements to be met by storerooms and containers:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Store under dry conditions. Keep container tightly sealed.

Specific end use(s):

No further relevant information available.

## 8.0 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems:

No further data; see item 7.

### Control parameters

Components with limit values that require monitoring at the workplace:

Not required.

Additional information:

The lists that were valid during the compilation were used as basis.

### Exposure controls

#### Personal protective equipment

General protective and hygienic measures:

Do not eat, drink or smoke when working. Keep away from food-stuffs, beverages and food. Wash hands during breaks and at the end of the work.

Breathing equipment:

In case of formation of vapours/dusts: In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Recommended filter device for short term use:	Filter P2.
Protection of hands:	Rubber gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of gloves:	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material:	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:	Not required.
Body protection:	Protective work clothing.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### General information

##### Appearance

Form:	Powder.
Colour:	Dark green.
Odour:	Odourless.
pH-value at 20 °C:	9 (Susp. in Wass).

##### Change in condition

Melting point/Melting range:	200 Zers. °C.
Boiling point/Boiling range:	Not determined.
Flash point:	Not applicable.
Inflammability (solid, gaseous):	Product is not inflammable.
Danger of explosion:	Product is not explosive.

##### Explosion limits

Lower:	Not determined.
Upper:	Not determined.
Specific gravity at 20 °C:	4 g/cm <sup>3</sup> .
Solubility in / Miscibility with Water:	Insoluble.
<b>Viscosity:</b>	
dynamic:	Not applicable.
kinematic:	Not applicable.
Other information:	No further relevant information available.

## 10.0 STABILITY AND REACTIVITY

### Reactivity

#### Chemical stability

Thermal decomposition/conditions to be avoided:	ca. 270 °C.
Possibility of hazardous reactions:	Exothermic reactions with acids.
Conditions to avoid:	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition products:	No dangerous decomposition products known.

## 11.0 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity

Primary irritant effect	
on the skin:	No irritant effect.
on the eye:	No irritant effect.
Sensitization:	No sensitizing effect known.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Harmful.

## 12.0 ECOLOGICAL INFORMATION

### Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

### Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

### Ecotoxicological effects

Remark: Very toxic for fish.

Additional ecological information

General notes: Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.

### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

## 13.0 DISPOSAL CONSIDERATIONS

### Waste treatment methods

Recommendation: Must be specially treated under adherence to official regulations.

### Uncleaned packaging

Recommendation: Disposal must be made according to official regulation.

## 14.0 TRANSPORT INFORMATION

### UN-Number



ADR, IMDG, IATA: UN3077.

### UN proper shipping name

ADR: 3 0 7 7 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper(II) carbonate--copper(II) hydroxide (1:1)).  
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper(II) carbonate--copper(II) hydroxide (1:1)), MARINE POLLUTANT.

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper(II) carbonate--copper (II) hydroxide (1:1)).

### Transport hazard class(es)

ADR:  

Class: 9 (M7) Miscellaneous dangerous substances and articles.  
Label: 9.

IMDG, IATA:  

Class: 9 Miscellaneous dangerous substances and articles.  
Label: 9.

### Packing group

ADR, IMDG, IATA: III.

### Environmental hazards

Marine pollutant: Yes (P). Symbol (fish and tree).

Special marking (ADR): Symbol (fish and tree).

Special marking (IATA): Symbol (fish and tree).

Special precautions for user:  
Kemler Number:  
EMS Number:

Warning: Miscellaneous dangerous substances and articles.  
90.  
F-A, S-F.

Transport in bulk according to  
Annex II of MARPOL73/78 and  
the IBC Code:

Not applicable.

#### Transport/Additional information

ADR

Limited quantities (LQ):

5 kg

Transport category:

3.

Tunnel restriction code:

E.

UN "Model Regulation":

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (copper(II) carbonate--copper(II) hydroxide (1:1)),  
9, III.

## 15.0 REGULATORY INFORMATION

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

National regulations

Class	Share in %
III	100.0

Water hazard class:

Water danger class 3 (German Regulation) (Self-classification):  
extremely hazardous for water.

Other regulations, limitations and  
prohibitive regulations:

Special local regulations must be adhered if using harmful sub-  
stances.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## 16.0 OTHER INFORMATION

The information contained herein is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the international Transport of Dangerous Goods by Rail).

ICAO: International Civil Aviation Organization.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

P : Marine Pollutant.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

CAS: Chemical Abstracts Service (division of the American Chemical Society).