

1.) Identification of the substance/mixture and of the company/undertaking

Trade name

Basic copper carbonate

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

Relevant identified uses of the substance or mixture

Technical applications - wood treatment, organic chemistry, electroplating

Details of the supplier of the safety data sheet

Address

Timna Copper Mine Ltd
DOAR NA
EILLOT ISRAEL 88000

Telephone no. 972-8-6374171

Fax no. 972-8-6374174

Information provided by / telephone

972-8-6374171

Emergency telephone

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

Advice on Safety Data Sheet

timna@timna.co.il

2.) Hazards identification

Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302
Aquatic Acute 1; H400

Classification in accordance with Directive 67/548/EEC or 1999/45/EC

N; R50
Xn; R22

Label elements

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

Product identifier

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

Hazard pictograms



GHS07



GHS09

Signal word

Warning

Hazard statements

H302 Harmful if swallowed.
H400 Very toxic to aquatic life.

Precautionary statements

P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P391 Collect spillage.

3.) Composition / information on ingredients

Chemical characterization

copper(II) carbonate--copper(II) hydroxide (1:1)

Substance / product identification

CAS no.	12069-69-1
EC no.	235-113-6
Molecular weight	221,11
Formula	CuCO ₃ x Cu(OH) ₂

4.) First aid measures

General information

In case of persisting adverse effects, consult a physician. Change contaminated clothing.

After inhalation

Remove affected person from the immediate area. Fresh air. Get medical attention if pain still persists.

After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Seek medical advice immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person.

5.) Fire-fighting measures

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide

Special protective equipment for fire-fighters

Appropriate breathing apparatus may be required. Wear protective clothing.

6.) Accidental release measures

Personal precautions

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Take up mechanically; When picked up, treat material as prescribed under heading "Disposal considerations".

7.) Handling and storage

Handling

Advice on safe handling

Avoid absolutely dust formation and dust deposition. Provide good ventilation of working area (local exhaust ventilation, if necessary). Avoid contact with skin and eyes.

Advice on protection against fire and explosion

No special measures necessary.

Storage

Requirements for storage rooms and vessels

Store product in closed containers.

Advice on storage assembly

Do not store together with foodstuffs. Do not store together with acids.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

8.) Exposure controls / personal protection

Exposure limit values

N O N E

Exposure controls

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respiratory filter (part): P2

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product . Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye protection

Safety glasses (EN 166)

Skin protection

Normal chemical work clothing.

General protective and hygiene measures

Do not eat or drink during work - no smoking. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin.

9.) Physical and chemical properties

General information

Form	Powder / granulates
Colour	green
Odour	odourless

Important health, safety and environmental information

Changes in physical state

Type	Decomposition temperature	
Value	> 150	° C

Density

Value	1,8 - 2,1	g/cm ³
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Solubility in water

Remarks	insoluble
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10.) Stability and reactivity

Conditions to avoid

Reactions with acids.

Materials to avoid

Acids

Hazardous decomposition products

Carbon monoxide and carbon dioxide

11.) Toxicological information

Acute toxicity

Acute oral toxicity

LD50	300	mg/kg
Species	rat	
LDLo	1088	mg/kg
Species	Human	

LDLo	60	mg/kg
Species	dog	
TDLo	272	mg/kg
Species	Human	

Experience in practice

Inhalation of dusts may irritate the respiratory tract. Eye contact may cause mechanical irritation through dust particles.

Other information

Exercise customary precautions when handling chemicals.

12.) Ecological information

Other information

Do not allow to enter soil, waterways or waste water canal. Ecological data are not available.

13.) Disposal considerations

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

14.) Transport information

Transport ADR/RID/ADN

Class	9
Classification code	M7
Packing group	III
Hazard identification no.	90
UN number	3077
Technical name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Danger releasing substance	copper(II) carbonate--copper(II) hydroxide (1:1)
Tunnel restriction code	E
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

Transport IMDG

Class	9
Packing group	III
UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Danger releasing substance	copper(II) carbonate--copper(II) hydroxide (1:1)
EmS	F-A+S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

Transport ICAO/IATA

Class	9
Packing group	III
UN number	3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Danger releasing substance	copper(II) carbonate--copper(II) hydroxide (1:1)
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

15.) Regulatory information

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

EU regulations

Restriction of occupation

Adhere to the national regulations when using this product.

16.) Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Department issuing safety data sheet

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.