according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



### Copper(II) sulphate pentahydrate ≥99 %, Ph.Eur., BP

article number: P025 date of compilation: 2015-08-13 Version: **3.0 en** Revision: 2017-01-30

Replaces version of: 2016-08-31

Version: (2.0)

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

#### **Product identifier** 1.1

Identification of the substance Copper(II) sulphate pentahydrate

Article number P025

Registration number (REACH) 01-2119520566-40

Index No 029-023-00-4 EC number 231-847-6 CAS number 7758-99-8

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

**Identified uses:** laboratory chemical

1.3 Details of the supplier of the safety data sheet

> Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:** +49 (0) 721 - 56 06 0 Telefax: +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data : Department Health, Safety and Environment

e-mail (competent person) : sicherheit@carlroth.de

1.4 **Emergency telephone number** 

> **Emergency information service** Poison Centre Munich: +49/(0)89 19240

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

### Classification acc. to GHS

Section	Hazard class	Hazard class and cat- egory	Hazard state- ment
3.10	acute toxicity (oral)	(Acute Tox. 4)	H302
3.3	serious eye damage/eye irritation	(Eye Dam. 1)	H318
4.1A	hazardous to the aquatic environment - acute hazard	(Aquatic Acute 1)	H400
4.1C	hazardous to the aquatic environment - chronic hazard	(Aquatic Chronic 1)	H410

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#### **Remarks**

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

#### 2.2 Label elements

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

### Signal word Danger

### **Pictograms**







### **Hazard statements**

H302 Harmful if swallowed. H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

### **Precautionary statements - prevention**

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

### **Precautionary statements - response**

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger** 

Symbol(s)







H318 Causes serious eye damage.

P280 Wear eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

#### 2.3 Other hazards

There is no additional information.

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

### 3.1 Substances

Name of substance Copper(II) sulphate pentahydrate

Index No 029-023-00-4

Registration number (REACH) 01-2119520566-40

EC number 231-847-6 CAS number 7758-99-8 Molecular formula  $CuSO_4*5H_2O$  Molar mass 249,7  $^9/_{mol}$ 

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

### Following inhalation

Provide fresh air.

#### Following skin contact

In case of skin irritation, consult a physician.

### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Consult an ophthalmologist.

### Following ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Abdominal pain, Vomiting, Diarrhoea, Conjunctivitis (pink eye), Corneal opacity, Circulatory collapse, Risk of serious damage to eyes, Acidosis

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

none

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## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

### Unsuitable extinguishing media

water jet

### 5.2 Special hazards arising from the substance or mixture

Non-combustible.

### **Hazardous combustion products**

In case of fire may be liberated: sulphur oxides (SOx)

### 5.3 Advice for firefighters

Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

Do not breathe dust. Avoid contact with skin and eyes.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it

### 6.3 Methods and material for containment and cleaning up

#### Advices on how to contain a spill

Covering of drains.

### Advices on how to clean up a spill

Take up mechanically. Control of dust.

### Other information relating to spills and releases

Place in appropriate containers for disposal.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

When not in use, keep containers tightly closed.

### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### Consideration of other advice

Hygroscopic solid.

### Ventilation requirements

Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

### 7.3 Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### **National limit values**

### **Occupational exposure limit values (Workplace Exposure Limits)**

Data are not available.

#### 8.2 Exposure controls

### Individual protection measures (personal protective equipment)







### **Eye/face protection**

Use safety goggle with side protection.

### Skin protection

### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### type of material

NBR (Nitrile rubber)

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#### material thickness

>0,11 mm

### · breakthrough times of the glove material

>480 minutes (permeation: level 6)

### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

### **Appearance**

Physical state solid (crystalline)

Colour blue

Odour odourless

Odour threshold No data available

Other physical and chemical parameters

pH (value) 3,5 - 4,5 (50 <sup>g</sup>/<sub>l</sub>, 20 °C)

Melting point/freezing point not determined

Initial boiling point and boiling range This information is not available.

Flash point not applicable

Evaporation rate no data available

Flammability (solid, gas) Non-flammable

**Explosive limits** 

lower explosion limit (LEL)
 upper explosion limit (UEL)
 this information is not available
 Explosion limits of dust clouds
 these information are not available

Vapour pressure This information is not available.

Density 2,28 g/<sub>cm³</sub> at 20 °C

Vapour density This information is not available.

Relative density Information on this property is not available.

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Solubility(ies)

Water solubility 317 <sup>g</sup>/<sub>l</sub> at 20 °C

Partition coefficient

n-octanol/water (log KOW) This information is not available.

Auto-ignition temperature Information on this property is not available.

Decomposition temperature >110 °C

Viscosity not relevant (solid matter)

Explosive properties Shall not be classified as explosive

Oxidising properties none

9.2 Other information

There is no additional information.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: Magnesium, Strong oxidiser

### 10.4 Conditions to avoid

Decompostion takes place from temperatures above: >110 °C.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

# SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

### **Acute toxicity**

Exposure route	Endpoint	Value	Species	Source
oral	LD50	960 <sup>mg</sup> / <sub>kg</sub>	rat	TOXNET / HSDB
oral	LD	0 - 1.088 <sup>mg</sup> / <sub>kg</sub>	human	RTECS
dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat	RTECS

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

### • Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### • Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

### • If swallowed

abdominal pain, vomiting, diarrhoea

#### • If in eyes

Causes serious eye irritation - conjunctivitis (pink eye) - corneal opacity

#### If inhaled

data are not available

#### • If on skin

irritation

#### Other information

Other adverse effects: Circulatory collapse. Acidosis. Liver and kidney damage.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

### **Aquatic toxicity (acute)**

Very toxic to aquatic organisms.

Endpoint	Value	Species	Source	Exposure time
EC50	0,02 <sup>mg</sup> / <sub>l</sub>	daphnia magna	ECOTOX Database	48 h
LC50	0,11 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	ECOTOX Database	96 h

### **Aquatic toxicity (chronic)**

May cause long-term adverse effects in the aquatic environment.

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### 12.2 Process of degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

# **SECTION 14: Transport information**

14.1	UN number	3077
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	Hazardous ingredients	Copper(II) sulphate pentahydrate
14.3	Transport hazard class(es)	
	Class	$9\ (\text{miscellaneous dangerous substances}\ \text{and articles})\ (\text{environmentally hazardous})$
14.4	Packing group	III (substance presenting low danger)
14.5	Environmental hazards	hazardous to the aquatic environment

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

### • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.

Particulars in the transport document UN3077, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, SOLID, N.O.S., (Copper(II) sulphate pen-

tahydrate), 9, III, (-)

Class 9

Classification code M7

Packing group III

Danger label(s) 9 + "fish and tree"



Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
Transport category (TC) 3
Tunnel restriction code (TRC) -

Hazard identification No 90 **Emergency Action Code** 2Z

### • International Maritime Dangerous Goods Code (IMDG)

UN number 3077

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.

Particulars in the shipper's declaration UN3077, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, SOLID, N.O.S., (Copper(II) sulphate pen-

tahydrate), 9, III

Class 9

Marine pollutant yes (hazardous to the aquatic environment)

Packing group III

Danger label(s) 9 + "fish and tree"

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Stowage category

Special provisions (SP) 274, 335, 966, 967, 969

Excepted quantities (EQ) E1 Limited quantities (LQ) 5 kg **EmS** F-A, S-F

International Civil Aviation Organization (ICAO-IATA/DGR)

**UN** number 3077

Proper shipping name Environmentally hazardous substance, solid,

n.o.s.

Α

UN3077, Environmentally hazardous substance, solid, n.o.s., (Copper(II) sulphate pentahydrate), 9, Particulars in the shipper's declaration

9 Class

Environmental hazards yes (hazardous to the aquatic environment)

III Packing group

9 + "fish and tree"



Special provisions (SP) A97, A158, A179, A197, 274

Excepted quantities (EQ) E1 Limited quantities (LQ) 30 kg

## SECTION 15: Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)
  - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) Not listed.
  - Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS) Not listed.

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• Regulation 850/2004/EC on persistent organic pollutants (POP)

Not listed.

List of substances subject to authorisation (REACH, Annex XIV)

not listed

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100	200	56)

#### **Notation**

Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

not listed

#### **National inventories**

Substance is listed in the following national inventories:

- EINECS/ELINCS/NLP (Europe)
- REACH (Europe)

### **15.2** Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

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

### 16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
2.2		Precautionary statements - prevention: change in the listing (table)
2.2		Precautionary statements - response: change in the listing (table)
2.2	Precautionary statements - disposal	
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)
3.1	Molar mass: 250 <sup>g</sup> / <sub>mol</sub>	Molar mass: 249,7 <sup>g</sup> / <sub>mol</sub>
9.1	Density: 2.3 <sup>9</sup> / <sub>cm³</sub>	Density: 2,28 <sup>g</sup> / <sub>cm³</sub> at 20 °C
11.1		Acute toxicity: change in the listing (table)

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Section	Former entry (text/value)	Actual entry (text/value)
14.2	Hazardous ingredients: Copper sulphate pentahydrate	Hazardous ingredients: Copper(II) sulphate pentahydrate
14.8	Particulars in the transport document: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (Copper sulphate pentahy- drate), 9, III, (E)	Particulars in the transport document: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (Copper(II) sulphate pentahy- drate), 9, III, (-)
14.8	Special provisions (SP): 274, 335, 601	Special provisions (SP): 274, 335, 375, 601
14.8	Tunnel restriction code (TRC):	Tunnel restriction code (TRC):
14.8	Particulars in the shipper's declaration: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (Copper sulphate pentahy- drate), 9, III	Particulars in the shipper's declaration: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (Copper(II) sulphate pentahy- drate), 9, III
14.8		• International Civil Aviation Organization (ICAO-IATA/DGR)
14.8		UN number: 3077
14.8		Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
14.8		Particulars in the shipper's declaration: UN3077, Environmentally hazardous substance, solid, n.o.s., (Copper(II) sulphate pentahydrate), 9, III
14.8		Class: 9
14.8		Environmental hazards: yes (hazardous to the aquatic environment)
14.8		Packing group: III9 + "fish and tree"
14.8		Packing group: change in the listing (table)
14.8		Special provisions (SP): A97, A158, A179, A197, 274
14.8		Excepted quantities (EQ): E1
14.8		Limited quantities (LQ): 30 kg
15.1	National inventories: Substance is listed in the following national inventories: - EINECS/ELINCS/NLP (Europe)	National inventories: Substance is listed in the following national inventories: - EINECS/ELINCS/NLP (Europe) - REACH (Europe)
16		Abbreviations and acronyms: change in the listing (table)

### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

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Abbr.	Descriptions of used abbreviations
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	very Persistent and very Bioaccumulative

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EÚ GHS)

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	harmful if swallowed
H318	causes serious eye damage
H400	very toxic to aquatic life
H410	very toxic to aquatic life with long lasting effects

### Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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