

according to Regulation (EC) No 1907/2006

Copper(II) chloride, 25 g			
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SECTION 1: Identification of the s	ubstance/mixture and of the company/	undertaking	
1.1. Product identifier			
Copper(II) chloride, 25	g		
CAS No:	10125-13-0		
EC No:	231-210-2		
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised agai	nst	
Use of the substance/mixture			
Laboratory chemicals			
1.3. Details of the supplier of the safe	ety data sheet		
Seller			
Company name:	CONATEX-DIDACTIC Lehrmittel GmbH		
Street:	Im Forstgarten 1		
Place:	D-66459 Kirkel		
Internet:	www.conatex.com		
Supplier			
Company name:	Carbolution Chemicals GmbH		
Street:	Im Stadtwald, Gebäude A1.2		
Place:	D-66123 Saarbrücken		
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232	
e-mail:	michael.bauer@carbolution-chemicals.de		
Internet:	www.carbolution-chemicals.de		
1.4. Emergency telephone number:	+49 (0)681 302-71232		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Indications of danger: Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R phrases: Harmful if swallowed. Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories: Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor (self-classification) = 1) Hazardous to the aquatic environment: Aquatic Chronic 1 (M-Factor (self-classification) = 1) Hazard Statements: Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.



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.2. Label elements		
Hazardous components Copper(II) c	which must be listed on the label hloride	
Signal word:	Warning	
Pictograms:	GHS07-GHS09	
Hazard statements		
H302	Harmful if swallowed.	
H302 H315	Causes skin irritation.	
H302	Causes skin irritation. Causes serious eye irritation.	
H302 H315 H319	Causes skin irritation.	
H302 H315 H319 H335 H410	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.	
H302 H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.	
H302 H315 H319 H335 H410 Precautionary statemen	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.	
H302 H315 H319 H335 H410 Precautionary statemen P273	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects. Its Avoid release to the environment.	

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	Cl2Cu · 2H2O
Molecular weight:	170,48

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
231-210-2	Copper(II) chloride	100 %
10125-13-0	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-36/37/38-50-53	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H319 H335 H400 H410	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.



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After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.



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Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	dark blue
Odour:	No data available

		Test method
pH-Value:	3,4	
Changes in the physical state		
Melting point:	100 °C	
Initial boiling point and boiling range:	No data available	
Sublimation point:	No data available	
Softening point:	No data available	
Flash point:	No data available	
Flammability		
Solid:	No data available	
Gas:	No data available	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Ignition temperature:	No data available	
Auto-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density:	2,51 g/cm³	
Water solubility:	No data available	
Partition coefficient:	No data available	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	



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Vapour density:	No data available		
Evaporation rate:	No data available		
Solvent separation test:	No data available		
Solvent content:	No data available		
9.2. Other information			
Solid content:	No data available		

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Acute toxicity, dermal.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
10125-13-0	Copper(II) chloride				
	oral	ATE	500 mg/kg		

Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: Irritant.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).



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Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14:	Transport	information
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Land transport (ADR/RID)

14.1. UN number:

14.2. UN proper shipping name:

UN2802 COPPER CHLORIDE



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14.3. Transport hazard class(es):	8	
14.4. Packing group:	III	
Hazard label:	8	
Classification code:	C2	
Limited quantity:	5 kg	
Transport category:	3	
Hazard No:	80	
Tunnel restriction code:	E	
Other applicable information (land trans	sport)	
Inland waterways transport (ADN)		
<u>14.1. UN number:</u>	UN2802	
14.2. UN proper shipping name:	COPPER CHLORIDE	
14.3. Transport hazard class(es):	8	
<u>14.4. Packing group:</u>	III	
Hazard label:	8	
Classification code:	C2	
Limited quantity:	5 kg	
Other applicable information (inland wa E1	terways transport)	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN2802	
14.2. UN proper shipping name:	COPPER CHLORIDE	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	III	
Hazard label:	8	
Marine pollutant:	Р	
Special Provisions:	-	
Limited quantity:	500 g	
EmS:	F-A, S-B	
Other applicable information (marine tra E1	ansport)	
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN2802	
14.2. UN proper shipping name:	COPPER CHLORIDE	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	III	
Hazard label:	8	
Special Provisions:	A803	
Limited quantity Passenger:	5 kg	
IATA-packing instructions - Passenger:	860	
IATA-max. quantity - Passenger:	25 kg	
IATA-packing instructions - Cargo:	864 100 kg	
IATA-max. quantity - Cargo:	100 kg	
Other applicable information (air transp E1 : Y845	ort)	



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14.5. Environmental	<u>hazards</u>		
ENVIRONMENTA	LLY HAZARDOUS:	yes	
SECTION 15: Regu	latory information		
15.1. Safety, health a	nd environmental regu	lations/legislation specific for the substance or mixture	
EU regulatory information			
Additional information			
Safet	y Data Sheet according	to Regulation (EC) No. 1907/2006 (REACH)	
National regulato	ry information		
Water contaminati	ng class (D):	3 - highly water contaminating	
SECTION 16: Other information			
Relevant R-phras 22 36/37/38 50 53	es (Number and full tex Harmful if swallowed. Irritating to eyes, respir Very toxic to aquatic or May cause long-term a	atory system and skin.	

Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.