

Print date: 14.04.2015 SECTION 1: Identification of the substa	Copper, powder, 250 g Product code: 9991474		
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	ance/mixture and of the company/u	undertaking	
Copper, powder, 250 g			
	0-50-8		
EC No: 231	-159-6		
1.2. Relevant identified uses of the substant	nce or mixture and uses advised again	nst	
Use of the substance/mixture			
Laboratory chemicals			
1.3. Details of the supplier of the safety da	ta sheet		
Seller			
Company name: CO	NATEX-DIDACTIC Lehrmittel GmbH		
Street: Im I	Forstgarten 1		
	6459 Kirkel		
Internet: www	w.conatex.com		
Supplier			
Company name: Car	bolution Chemicals GmbH		
Street: Im S	Stadtwald, Gebäude A1.2		
	6123 Saarbrücken		
	Michael Bauer	Telephone: +49 (0)681 302-71232	
	hael.bauer@carbolution-chemicals.de		
	w.carbolution-chemicals.de		
1.4. Emergency telephone +49 number:	0 (0)681 302-71232		
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixed	ture		
Classification according to Directive 67	//548/EEC or 1999/45/EC		
_	ghly flammable, N - Dangerous for the e	nvironment	
R phrases:			
Highly flammable.			
Very toxic to aquatic organis			
Classification according to Regulation Hazard categories:	(EC) NO. 1272/2008 [CLF]		
Flammable solid: Flam. Sol.	1		
-	vironment: Aquatic Acute 1 (M-Factor (s	self-classification) = 1)	
Hazard Statements: Flammable solid.			
Very toxic to aquatic life.			
2.2. Label elements			
Signal word:	Danger		
Pictograms:	GHS02-GHS09		
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according to Regulation (EC) No 1907/2006

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Hazard statements			
H228	Flammable solid.		
H400	Very toxic to aquatic life.		
Precautionary statem	ents		
P273	Avoid release to the environment.		
P501	Dispose of contents/container to Waste management.		
SECTION 3: Composition/information on ingredients			
3.1. Substances			
Sum formula:	Cu		

Molecular weight: 63,55

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]	
231-159-6	Copper, powder	100 %
7440-50-8	F - Highly flammable, N - Dangerous for the environment R11-50	
	Flam. Sol. 1, Aquatic Acute 1; H228 H400	

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.

After contact with skin

Wash with plenty of water. Change contaminated clothing.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

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

In case of fire: Wear self-contained breathing apparatus.



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Additional information

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

Wear personal protection equipment. Avoid generation of dust. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. Remove persons to safety. Do not breathe dust.

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 dust-free and set down dust-free. 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.

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

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7440-50-8	Copper, dusts and mists (as Cu)	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. 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).



Test method

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	light red
Odour:	No data available

pH-Value:	No data available
Changes in the physical state	
Melting point:	1083 °C
Initial boiling point and boiling range:	2567 °C
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:	No data available
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
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



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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

Toxicological data are not available.

Irritation and corrosivity

No data available

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).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life.

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).



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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

Land transport (ADR/RID)

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<u>14.1. UN number:</u>	UN3089
14.2. UN proper shipping name:	METAL POWDER, FLAMMABLE, N.O.S.
14.3. Transport hazard class(es):	4.1
14.4. Packing group:	II
Hazard label:	4.1
Classification code:	F3
Special Provisions:	552
Limited quantity:	1 kg
Transport category:	2
Hazard No:	40
Tunnel restriction code:	E
Other applicable information (land trans) E2	port)
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN3089
14.2. UN proper shipping name:	METAL POWDER, FLAMMABLE, N.O.S.
14.3. Transport hazard class(es):	4.1
14.4. Packing group:	II
Hazard label:	4.1
Classification code:	F3
Special Provisions:	552
Limited quantity:	1 kg
	-



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Other applicable information (inland v	vaterways transport)	
E2		
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN3089	
14.2. UN proper shipping name:	METAL POWDER, FLAMMABLE, N.O.S.	
14.3. Transport hazard class(es):	4.1	
14.4. Packing group:	II	
Hazard label:	4.1	
Special Provisions: Limited quantity:	- 1 kg	
EmS:	F-G, S-G	
Other applicable information (marine	transport)	
E2		
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN3089	
14.2. UN proper shipping name:	METAL POWDER, FLAMMABLE, N.O.S.	
14.3. Transport hazard class(es):	4.1	
14.4. Packing group:	П	
Hazard label:	4.1	
Special Provisions:	A3	
Limited quantity Passenger: IATA-packing instructions - Passenger:	5 kg 445	
IATA-packing instructions - Passenger.	445 15 kg	
IATA-packing instructions - Cargo:	448	
IATA-max. quantity - Cargo:	50 kg	
Other applicable information (air trans	sport)	
E2 : Y441		
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	ves	
SECTION 15: Regulatory information	·	
	gulations/legislation specific for the substance or mixture	
EU regulatory information		
Additional information		
-	ng to Regulation (EC) No. 1907/2006 (REACH)	
National regulatory information		
Water contaminating class (D):	3 - highly water contaminating	
SECTION 16: Other information		
Relevant R-phrases (Number and full	text)	
11 Highly flammable.		
50 Very toxic to aquatic	-	
Relevant H- and EUH-phrases (Number		
H228 Flammable H400 Very toxic to	solid. o aquatic life.	
		Devision data 00.00.0045