

according to Regulation (EC) No 1907/2006

Common(III) mitmete 25 m					
	Copper(II) nitrate, 25 g				
Print date: 14.04.2015	Product code: 9991485		Page 1 of 8		
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1. Product identifier					
Copper(II) nitrate, 25 g					
CAS No:	10031-43-3				
EC No:	221-838-5				
1.2. Relevant identified uses of the su	bstance or mixture and uses advised again	<u>ist</u>			
Use of the substance/mixture					
Laboratory chemicals					
1.3. Details of the supplier of the safet	ty 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: O - Oxidizing, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R phrases: Contact with combustible material may cause fire. Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes. 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: Oxidising solid: Ox. Sol. 2 Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Dam. 1 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: May intensify fire; oxidiser. Harmful if swallowed. Causes skin irritation. Causes serious eye damage.



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Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.				
2.2. Label elements				
Hazardous components w Copper(II) nitra	vhich must be listed on the label ate			
Signal word:	Danger			
Pictograms:	GHS03-GHS05-GHS07-GHS09			
Hazard statements H272	May intensify fire; oxidiser.			
H302	Harmful if swallowed.			
H315	Causes skin irritation.			
H318	Causes serious eye damage.			
H410	Very toxic to aquatic life with long lasting effects.			
Precautionary statements				
P273	Avoid release to the environment.			
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if			
D504	present and easy to do. Continue rinsing.			
P501	Dispose of contents/container to Waste management.			
SECTION 3: Composition/i	information on ingredients			

3.1. Substances

Sum formula:	CuN2O6 · 3H2O
Molecular weight:	241,60

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]	
221-838-5	Copper(II) nitrate	100 %
10031-43-3	O - Oxidizing, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R08-22-38-41-50-53	
	Ox. Sol. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H272 H302 H315 H318 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.



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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.

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. 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

Remove all sources of ignition. 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

Keep away from sources of ignition. - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool place. Keep away from sources of ignition. - No smoking.

Advice on storage compatibility

Keep away from combustible material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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8.2. Exposure controls

Appropriate engineering controls

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

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:		No data available
Changes in the physical state		
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:		No data available
Water solubility:		No data available
Partition coefficient:		No data available



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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

10.4. Conditions to avoid

In case of impact or pressure influence: Explosion hazard. Remove all sources of ignition. Keep away from heat. Ignition hazard.

10.5. Incompatible materials

Keep away from: material, combustible.

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
10031-43-3	Copper(II) nitrate				
	oral	ATE	500 mg/kg		

Irritation and corrosivity

Irritating to eyes. Risk of serious damage to eyes. 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



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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 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:	UN1477	
14.2. UN proper shipping name:	NITRATES, INORGANIC, N.O.S.	
14.3. Transport hazard class(es):	5.1	
14.4. Packing group:	П	
Hazard label:	5.1	
Classification code:	02	
Special Provisions:	511	
Limited quantity: Transport category:	1 kg 2	
Hazard No:	2 50	
Tunnel restriction code:	E	
Other applicable information (land trans	sport)	
E2		
Inland waterways transport (ADN)		
<u>14.1. UN number:</u>	UN1477	
14.2. UN proper shipping name:	NITRATES, INORGANIC, N.O.S.	
14.3. Transport hazard class(es):	5.1	
14.4. Packing group:	II	
Hazard label:	5.1	
Classification code:	02	
Special Provisions:	511	
Limited quantity:	1 kg	
Other applicable information (inland wa E2	terways transport)	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN1477	
14.2. UN proper shipping name:	NITRATES, INORGANIC, N.O.S.	
14.3. Transport hazard class(es):	5.1	
14.4. Packing group:	II	
Hazard label:	5.1	
Special Provisions:	-	
Limited quantity: EmS:	1 kg F-A, S-Q	
Other applicable information (marine tra		
E2		
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN1477	
14.2. UN proper shipping name:	NITRATES, INORGANIC, N.O.S.	
14.3. Transport hazard class(es):	5.1	
14.4. Packing group:	II	
Hazard label:	5.1	
Special Provisions:	A3	
Limited quantity Passenger:	2.5 kg	
IATA-packing instructions - Passenger:	558 5 kg	
IATA-max. quantity - Passenger:	5 kg	



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	nstructions - Cargo:	562			
IATA-max. qua	antity - Cargo:	25 kg			
Other applicable information (air transport)					
	E2				
-	Y544				
14.5. Environme	ntal hazards				
ENVIRONME	NTALLY HAZARDOUS:	yes			
SECTION 15: R	egulatory information				
15.1 Safaty boa	th and any ironmontal rea	ulations/legislation specific for the substance or mixtu	170		
EU regulatory	information				
Additional inf	ormation				
S	afety Data Sheet according	g to Regulation (EC) No. 1907/2006 (REACH)			
National regu	latory information				
Water contam	inating class (D):	3 - highly water contaminating			
SECTION 16: O	ther information				
Relevant R-pl	nrases (Number and full te	ext)			
08		ible material may cause fire.			
22 Harmful if swallowed.					
38	Irritating to skin.				
41	Risk of serious damag				
50	Very toxic to aquatic of	0			
53	May cause long-term	adverse effects in the aquatic environment.			
Relevant H- a	nd EUH-phrases (Number	and full text)			
H272	May intensify	fire: oxidiser			

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.