

according to Regulation (EC) No 1907/2006

Fehling's reagent I, 1 I

Print date: 14.04.2015 Product code: 9991341 Page 1 of 8 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Fehling's reagent I, 1 I 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Laboratory chemicals 1.3. Details of the supplier of the safety data sheet Seller Company name: CONATEX-DIDACTIC Lehrmittel GmbH Street: Im Forstgarten 1 Place: D-66459 Kirkel Internet: www.conatex.com Supplier Carbolution Chemicals GmbH Company name: Street: Im Stadtwald, Gebäude A1.2 Place: D-66123 Saarbrücken Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232 michael.bauer@carbolution-chemicals.de e-mail: Internet: www.carbolution-chemicals.de +49 (0)681 302-71232 1.4. Emergency telephone

number:

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: N - Dangerous for the environment

R phrases:

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:

Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 1 Hazard Statements: Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Signal word:	Warning
Pictograms:	GHS09



Hazard statements

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements P273

Avoid release to the environment.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Idex No Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
231-847-6	copper sulphate	5 - < 10 %
7758-98-7	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-36/38-50-53	
029-004-00-0	Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H302 H319 H315 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.

After contact with skin

Wash with plenty of water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

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.

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.



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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). 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

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).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	light blue	
Odour:	No data available	

pH-Value: **Changes in the physical state** Melting point: Initial boiling point and boiling range: Sublimation point:

Test method

No data available

0000000 °C No data available No data available



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No data available
No data available
No data available
No data available
No data available
No data available
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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

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Acute toxicity

CAS No	Chemical name				
	Exposure routes	Species	Source		
7758-98-7	copper sulphate				
	oral	LD50	300 mg/kg	Ratte	

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

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

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
7758-98-7	copper sulphate					
	Acute fish toxicity	LC50	0,11 mg/l	96 h	Onchorhynchus mykiss	

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



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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)

14.1. UN number:	UN3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 601
Limited quantity:	5 L
Transport category:	3
Hazard No:	90
Tunnel restriction code:	E
Other applicable information (land trans	port)
E1	
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 601
Limited quantity:	5 L
Other applicable information (inland wat	erways transport)



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Marine transport (IMDG)					
14.1. UN number:	UN 3082				
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
14.3. Transport hazard class(es):	9				
14.4. Packing group:	III				
Hazard label:	9				
Special Provisions: Limited quantity:	274, 335 5 L				
EmS:	F-A, S-F				
Other applicable information (marine tr E1					
Air transport (ICAO)					
14.1. UN number:	UN 3082				
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
14.3. Transport hazard class(es):	9				
14.4. Packing group:	5 				
Hazard label:	9				
Special Provisions:	9 A97 A158				
Limited quantity Passenger:	30 kg G				
IATA-packing instructions - Passenger:	964				
IATA-max. quantity - Passenger:	450 L				
IATA-packing instructions - Cargo:	964				
IATA-max. quantity - Cargo:	450 L				
Other applicable information (air transp E1 : Y964	port)				
14.5. Environmental hazards					
ENVIRONMENTALLY HAZARDOUS:					
	yes				
SECTION 15: Regulatory information					
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture				
EU regulatory information					
Additional information					
Safety Data Sheet according	g 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 te	ext)				
22 Harmful if swallowed.					
36/38 Irritating to eyes and					
50 Very toxic to aquatic o					
	adverse effects in the aquatic environment.				
Relevant H- and EUH-phrases (Number and full text) H302 Harmful if swallowed.					
H315 Causes skin					
	bus eye irritation.				

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H400 Very toxic to aquatic life.		
H410 Very toxic to aquatic life with long lasting effects.		

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)