

according to Regulation (EC) No 1907/2006

## Eosin-Methylene blue solution acc. to May-Grünwald, 100 ml

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

### 1.1. Product identifier

Eosin-Methylene blue solution acc. to May-Grünwald, 100 ml

# 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

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** +49 (0)681 302-71232

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: F - Highly flammable, T - Toxic

R phrases: Highly flammable.

Toxic by inhalation, in contact with skin and if swallowed.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if

swallowed.

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

Hazard categories:

Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 3

Specific target organ toxicity - single exposure: STOT SE 1

Hazard Statements:

Highly flammable liquid and vapour.

Toxic if inhaled.

Toxic in contact with skin. Toxic if swallowed.

Causes damage to organs.

### 2.2. Label elements

# Hazardous components which must be listed on the label

methanol



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Signal word: Danger

Pictograms: GHS02-GHS06-GHS08







### **Hazard statements**

H225 Highly flammable liquid and vapour.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H370 Causes damage to organs.

**Precautionary statements** 

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container to Waste management.

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

## 3.1. Substances

### **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]	
200-659-6	methanol	95 - < 100 %
67-56-1	F - Highly flammable, T - Toxic R11-23/24/25-39/23/24/25	
603-001-00-X	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370 **	
241-409-6	Eosin Y	< 1 %
17372-87-1	Xn - Harmful, Xi - Irritant R22-41-52-53	
	Acute Tox. 4, Eye Dam. 1; H302 H318	
200-515-2	Methylene blue	< 1 %
7220-79-3	Xn - Harmful, Xi - Irritant R22-36/37/38	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H302 H315 H319 H335	

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**

First aider: Pay attention to self-protection! Move victim out of danger zone.

#### After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

#### After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.



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#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### After indestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

### 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

Water. Carbon dioxide (CO2). Foam. Extinguishing powder.

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

Combustible. Vapours may form explosive mixtures with air.

#### 5.3. Advice for firefighters

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

### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. 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. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

### 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. Do not breathe gas/fumes/vapour/spray.

# Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

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

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.

### Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

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



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#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL

## 8.2. Exposure controls

#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### 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: liquid

Colour: No data available
Odour: No data available

Test method

pH-Value: No data available

Changes in the physical state

Initial boiling point and boiling range:

Sublimation point:

No data available

No data available

Softening point:

No data available

Flash point:

No data available

**Flammability** 

Solid:
Gas:
No data available
No data available
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



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No data available Gas: Vapour pressure: No data available No data available Vapour pressure: Density: No data available No data available Water solubility: 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 No data available Evaporation rate: No data available Solvent separation test: No data available Solvent content:

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

Keep away from heat. Ignition hazard.

### 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**

Very toxic. Acute toxicity, oral. Acute toxicity, inhalant. Acute toxicity, dermal. Danger of very serious irreversible effects.



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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
67-56-1	methanol				
	oral	ATE	100 mg/kg		
	dermal	ATE	300 mg/kg		
	inhalative vapour	ATE	3 mg/l		
	inhalative aerosol	ATE	0,5 mg/l		
17372-87-1	Eosin Y				
	oral	ATE	500 mg/kg		
7220-79-3	Methylene blue				
	oral	ATE	500 mg/kg		

#### 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

No data available

### 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

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

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)

<u>14.1. UN number:</u>	UN1230
14.2. UN proper shipping name:	METHANOL

14.3. Transport hazard class(es): 3

14.4. Packing group: Ш

Hazard label: 3+6.1Classification code: FT1 **Special Provisions:** 279 Limited quantity: 1 L Transport category: Hazard No: 336

### Other applicable information (land transport)

Tunnel restriction code:

#### Inland waterways transport (ADN)

14.1. UN number:	UN1230
14.2. UN proper shipping name:	METHANOL

D/F

. .. . . . . . . .

3 14.3. Transport hazard class(es): Ш 14.4. Packing group:

Hazard label: 3+6.1 Classification code: FT1 **Special Provisions:** 279 802 Limited quantity: 1 I



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#### Other applicable information (inland waterways transport)

F2

#### Marine transport (IMDG)

14.1. UN number:UN123014.2. UN proper shipping name:METHANOL

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+6.1Special Provisions:279Limited quantity:1 LEmS:F-E, S-D

### Other applicable information (marine transport)

E2

### Air transport (ICAO)

14.1. UN number: UN123014.2. UN proper shipping name: METHANOL

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+6.1Special Provisions:A104 A113Limited quantity Passenger:1 L

IATA-packing instructions - Passenger: 352
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

### Other applicable information (air transport)

E2 : Y341

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **EU regulatory information**

# Additional information

Safety Data Sheet according 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)

Highly flammable.Harmful if swallowed.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if

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Risk of serious damage to eyes.
Harmful to aquatic organisms.

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

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

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation. H370 Causes damage to organs.