



Safety Data Sheet

According to Regulation (EC) 1907/2006

1416 Eosin-Methylene Blue solution according to May Grünwald

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Name:

Eosin-Methylene Blue solution according to May Grünwald

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 2

Acute Tox. 3

Acute Tox. 3

Acute Tox. 3

STOT SE 1

Classification (67/548/CEE or 1999/45/CE).

T Toxic
F Highly flammable

R39/23/24/25
R23/24/25
R11

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H331 Toxic if inhaled.
H311 Toxic in contact with skin.
H301 Toxic if swallowed.
H370 Causes damage to organs.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

For the full text of the R-phrases mentioned in this section, see section 16.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Dyestuff solution

Name: Eosin-Methylene Blue solution according to May Grünwald

COMPOSITION:

0001: Methanol

Formula: CH₃OH M.= 32,04 CAS [67-56-1]

EC number (EINECS): 200-659-6

EC index number: 603-001-00-X

REACH Registration Number: 01-2119433307-44-XXXX

Content: >= 20 %

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 2

Acute Toxicity Inhalation cat. 3

Acute Toxicity Dermal cat. 3

Acute Toxicity Oral cat. 3

STOT SE 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H370 Causes damage to organs.

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P309 IF exposed or if you feel unwell:

P310 Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

F Highly flammable

T Toxic

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

4. First aid measures

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed immediately to provide artificial respiration. Seek immediate medical assistance.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water, keeping eyelids open. Seek medical assistance.

4.5 Swallowing:

Take the person out into the fresh air. Induce vomiting. Drink ethyl alcohol (25 ml at 50%). Call for medical help.

5. Firefighting measures

5.1 Suitable extinguishing media:

Water. Carbon dioxide (CO₂). Alcohol resistant foam. Dry powder.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. Auf Rückzündung achten Risk of inflammation due to accumulation of electrostatic charges. In the event of fire, toxic fumes may form.

5.4 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale the fumes.

6.2 Environmental precautions:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Precautions for safe handling:

No special indications.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat.

Recommended storage temperature: Room temperature. Restricted access, only authorized to technicians. Do not store in light-metal containers. Do not store in plastic containers.

8. Exposure controls/personal protection

8.1 Exposure controls:

No special indications.

8.2 Control parameters:

VLA-EC(methanol): 333 mg/m³ dermal resorption

VLA-EC(methanol): 250 ppm

VLA-ED(methanol): 200 ppm = 266 mg/m³ dermal resorption

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter AX. Filter P3.

8.4 Hand protection:

Use suitable gloves neopren PVC nitrile

8.5 Eye/face protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: liquid

Colour:

N/A

Granulometry: N/A

Odour: Methanolic.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range: ~65 °C

Flash point: ~ 12 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 31 %(V) / 5,5 %(V)

Vapour pressure: ~125 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

(20/4) 0,791 g/ml

Solubility: Miscible with alcohol

Partition coefficient: n-octanol/water:
N/A

Auto-ignition temperature: ~455 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity

10.1 Conditions to avoid:

The product is chemically stable under standard ambient conditions (room temperature).

10.2 Incompatible materials:

Acid halides. Alkaline metals. Alkali-earth metals. Oxidant agents (amongst others: perchloric acid, perchlorates, halogenates, CrO₃, halogen oxides, nitric acid, nitrogen oxides, non-metal oxides, chromo-sulphuric acid). Hydrides. Zinc diethyl. Halogens.

10.3 Hazardous decomposition products:

No specific data.

10.4 Chemical stability:

Hygroscopic. The gases/fumes can form explosive mixtures with the air.

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 340 mg/kg

11.2 Dangerous effects for health:

Taking the preparation's components into account, the likely dangerous characteristics are as follows: If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: Risk of cutaneous absorption. Through contact with the eyes: irritations Due to absorption: nausea vomiting headaches vertigo intoxication sight disorders blindness (irreversible injury of the optic nerve) Systemic effects: acidosis hypotension anxiety spasms narcosis coma

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Bacteria (*Photobacterium phosphoreum*) 284400 mg/l

Classification:

Toxic

Fish (*Leuciscus Idus*) >10000 mg/l

Classification:

Toxic

Fish (*Salmo gairdneri*) 8000 mg/l

Classification:

Very toxic

- Receptor medium:

- Observations:

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5 1,12 g/g

BOD5/COD

Biodegradability

DOC 1,50 g/g

- Abiotic degradation depending on pH:

ThOD 1,5 g/g

- Observations:

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

12.4 Mobility in soil :

Repartition: $\log P(\text{oct}) = -0,82$

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Environmental risks cannot be excluded if used and/or disposed of inappropriately.

13. Disposal considerations

13.1 Waste treatment methods:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision

2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18

March 1991 amending Directive 75/442/EEC on waste.

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13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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14. Transport information

Overland (ADR):

Technical name: METHANOL

UN 1230 Class: 3 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: METHANOL

UN 1230 Class: 3 6.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Methanol

UN 1230 Class: 3 6.1 Packaging group: II

Packaging instructions: CAO 364 PAX 352

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.

P311 Call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see on this label).

P322 Specific measures (see on this label).

P330 Rinse mouth.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use for extinction.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Labelling (65/548/CEE or 1999/45/CE)

R-phrases(s): **R39/23/24/25** Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 R11 Highly flammable.

S-phrases(s): **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S36/37 Wear suitable protective clothing and gloves.
 S16 Keep away from sources of ignition - No smoking.
 S7 Keep container tightly closed.

Version and revision date : 5 18.07.2014

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 14

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.