

SAFETY DATA SHEET

According to regulations (CE) No. 1907/2006 and 2015/830



Revision date: 04/07/2016

Version 16.1

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

1.1 Product identifier

Catalogue N°: **944**

Product name: **Methylene blue solution**

REACH registration number: This product is a mixture. REACH Registration Number see section 3.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company: Laboratoires Dujardin-Salleron 37210 Noizay France Phone +33 (0)2 47 25 58 25
mail : info@dujardin-salleron.com - web site : www.dujardin-salleron.com

1.4 Emergency telephone number France : INRS : +33 (0)1 45 42 59 59

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (CE) N° 1272/2008)

This product is not classified as dangerous according to Regulation (EC) N° 1272/2008.

2.2 Label elements

Labeling (Regulation (CE) N° 1272/2008)

No labeling required according to Regulation (EC) N° 1272/2008.

2.3 Other hazards

None known

SECTION 3. Composition/informations on ingredients

Chemical nature: Aqueous solution

3.1 Substance : not applicable

3.2 Mixture :

Components not classified as hazardous as a consequence of the substances concentration (Regulation (CE) N° 1272/2008)

Chemical name (Concentration)

Methylene blue (Methylthionium chloride, 3,7-Bis(dimethylamino)phenothiazinium chloride) (≈ 1%)

CAS N°	EC N°	REACH N°	Classification
61-73-4	200-515-2	Not available	Acute toxicity, oral, Cat. 4, H302,

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SAFETY DATA SHEET

According to regulations (CE) No. 1907/2006 and 2015/830

Catalogue N°: 944

Product name : Methylene blue solution

V 16.1



SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, carbon dioxide (CO₂), foam, dry powder.

Unsuitable extinguishing media

For this mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Do not empty into drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Take up with liquid-absorbent and neutralizing material (e.g. Trivorex ® (PREVOR)). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling Advice on safe handling

Tips for safe handling

Handle in accordance with good industrial safety practice and hygiene.

Hygiene measures

Remove contaminated clothing. Preventive skin protection is recommended. Wash hands after work.

7.2 Conditions for safe storage, including any incompatibilities

Store at +15°C to +25°C.

Keep containers tightly closed in a cool ventilated area

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls / personal protection

8.1 Control parameters

Components with occupational exposure limit values

The mixture does not contain sufficient quantities of substances with occupational exposure limit values

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal

SAFETY DATA SHEET

According to regulations (CE) No. 1907/2006 and 2015/830

Catalogue N°: 944

Product name : Methylene blue solution

V 16.1



protective equipment.
See section 7.1.

Individual protection measures

Hygiene measures :

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with mixture.

Eye/face protection

Safety glasses

Hand protection

Wear exclusively gloves special chemistry provided with a CE marking. If gloves must be reused, clean them before removing them and keeping them in a well ventilated place.

full contact:	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min
Splash contact:	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Body protection

Carry protective clothing for chemicals appropriate, provided with a CE marking.

Respiratory protection

Not necessary

Environmental exposure controls

Do not empty into drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid.
Color	bleu.
Odor	odorless.
Odor Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point	100°C at 1.013 hPa.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	non-flammable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	No information available.
Relative vapor density	No information available.
Relative density	ca.1 g/cm ³ at 20°C.
Water solubility	soluble at 20°C.
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.

SAFETY DATA SHEET

According to regulations (CE) No. 1907/2006 and 2015/830

Catalogue N°: 944

Product name : Methylene blue solution

V 16.1



Oxidizing properties none

9.2 Other data

Bulk density	No information available.
Refraction index	No information available.
Dissociation constant	No information available.
Surface tension	No information available.
Henry constant	No information available.

SECTION 10. Stability and reactivity

10.1 Reactivity

See below

10.2 Chemical stability

The product is chemically stable for 2 years under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No information available

10.6 Hazardous decomposition products in the event of fire

No information available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Mixture

Acute oral toxicity

can be harmful if swallowed.

Effective dose - species - times of exposure

No information available.

Acute dermal toxicity

Effective dose - species - times of exposure

No information available.

Acute inhalation toxicity

Effective dose - species - time of exposure

No information available.

Skin irritation

no particular irritant effects known.

Effective dose - species - time of exposure

No information available.

Eye irritation

no particular irritant effects known.

Effective dose - species - time of exposure

No information available.

Sensitization :

No sensitizing effect known

Specific target organ toxicity - single exposure

No information available.

Specific target organ toxicity - repeated exposure

No information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

SAFETY DATA SHEET

According to regulations (CE) No. 1907/2006 and 2015/830

Catalogue N°: 944

Product name : Methylene blue solution

V 16.1



<i>Mutagenicity/Genotoxicity</i>	No information available.
<i>Reproductive toxicity</i>	No information available.
<i>Teratogenicity</i>	No information available.
<i>Aspiration hazards</i>	No information available.

11.2 Further information

Dangerous properties are not excluded, but not very probable in case of appropriate use.

Handle in accordance with good industrial hygiene and safety

Components

Methylene blue (61-73-4)

Acute oral toxicity

LD50 rat: 1180 mg/kg (anhydrous substance) (RTECS)

Acute inhalation toxicity

No information available

Acute dermal toxicity

No information available

Skin irritation

No information available

Eye irritation

No information available

Carcinogenicity

No information available

Mutagenicity / genotoxicity

No information available

Reproductive toxicity

No information available

Teratogenicity

No information available

Aspiration hazard

No information available

SECTION 12. Ecological Information

Mixture

12.1 Ecotoxicity

Short-term acute toxicity to fish

Effective dose - species - times of exposure

No information available.

Long-term chronic toxicity to fish

Effective dose - species - times of exposure

No information available.

Short-term acute toxicity to daphnia

Effective dose - species - times of exposure

No information available

Long-term chronic toxicity to daphnia

Effective dose - species - times of exposure

No information available.

Short-term acute toxicity to algae

Effective dose - species - times of exposure

No information available

Long-term chronic toxicity to algae

Effective dose - species - times of exposure

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Additional/ ecological information

Discharge into the environment must be avoided.

Components

Methylene blue (61-73-4)

Toxicity to fish

LC50 Pimephales promelas: 45 mg/l; 96 h (anhydrous substance) (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

CE50 Daphnia magna: 2260 mg/l; 48 h (anhydrous substance) (ECOTOX Database)

SAFETY DATA SHEET

According to regulations (CE) No. 1907/2006 and 2015/830

Catalogue N°: 944

Product name : Methylene blue solution

V 16.1



<i>Persistence and degradability</i>	No information available.
<i>Bioaccumulative potential</i>	No information available.
<i>Mobility in soil</i>	No information available.
<i>Results of PBT and vPvB assessment</i>	No information available.
<i>Additional/ ecological information</i>	
Discharge into the environment must be avoided.	

SECTION 13. Disposal considerations

Waste treatment methods

Waste must be disposed of in accordance with the Directive on waste 2008/98/EC and with local and national regulations. Leave chemicals in original containers. No mixing with other waste. Treat uncleaned containers like the product itself.

SECTION 14. Transport information

Land transport (ADR / RID)

14.1 - 14.6

The mixture is not subject to regulations for road transport.

Air transport (IATA)

14.1 - 14.6

The mixture is not subject to regulations for air transport.

Sea transport (IMDG)

14.1 - 14.6

The mixture is not subject to regulations for sea transport.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

UE regulations

Aquatic Class risk (WGK)

WGK1 (slightly hazardous for water).

Occupational restrictions

Take note of Directive 94/33/EC on the protection of young people at work and Directive 92/85/EEC on the safety and health at work of pregnant women

Substances of very high concern (SVHC)

This product does not contain substances of very high concern above the respective regulatory limit (> 0.1% (w/w) Regulation (EC) N° 1907/2006 (REACH), Article 57

15.2 Chemical Safety Assessment

No information available.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H302

Harmful if swallowed.

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.