

## 1-Identification of the substance/preparation and of the company or firm

### 1.1 Identification of the substance or preparation

Methylene Blue

Synonym: 3,7-Bis(Dimethylamino)Pheno-5-thiazinium Chloride, C.I. Basic Blue 9, Tetramethylthionine Chloride

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 Use of the substance/preparation:

For laboratory utilization, analysis, research and fine chemistry.

### 1.3 Identification of the company or firm:

DELTALAB, S.L.. Pol. Ind. La Llana, Plaza Veneda 1, (08191) Rubí (Barcelona) Spain.  
Telf. (+34) 93 6995000

### 1.4 Emergency telephone:

Emergencies: Single telephone number for emergency calls: 112 (UE)

Intoxication: Instituto Nacional de Toxicología (Madrid) tel: (+34)915620420

## 2- Identification of dangers

**Classification Regulation (CE) nº 1272/2008.**

Acute Tox. 4

### Hazard Pictograms



### Signal word

Warning

### Hazard statements

H302 Harmful if swallowed.

### Precautionary statements

P264 Wash...thoroughly after handling.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

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

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

Xn Harmful

R22

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

**3- Component Composition/Information**

Aqueous solution Methylene Blue (C.I. 52015)

Formula: C<sub>16</sub>H<sub>18</sub>ClN<sub>3</sub>S.xH<sub>2</sub>O M.=319,85 (anhidro)

CAS [61-73-4]

EC Number (EINECS): 200-515-2

**4- First aid**

**4.1 General indications:**

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

**4.2 Inhaling:**

Go out into the fresh air.

**4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing

**4.4 Eyes:**

Wash with plenty of water, (for at least 15 min) keeping eyelids open.

**4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek medical assistance

**5- Fire-fighting means**

**5.1 Suitable fire-extinguishing means:**

Water. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).

**5.2 Fire-fighting means which must NOT be used**

-----

**5.3 Special risks:**

Combustible. Keep away from sources of ignition. In the event of fire, toxic fumes may form: SO<sub>x</sub>, NO<sub>x</sub>, HCl, Cl<sub>2</sub>.

**5.4 Protective equipment:**

-----

**6- Measures to be taken in the event of accidental spillage**

**6.1 Individual precautions:**

---

**6.2 Precautions for care of the environment:**

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

### **6.3 Methods for collection/cleaning:**

Collect up dry 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 Handling:**

---

### **7.2 Storage:**

Well sealed containers. Dry atmosphere. Atmospheric temperature.

## **8- Staff exposure/protection controls**

### **8.1 Technical protective measures:**

----

### **8.2 Exposure limit control:**

----

### **8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles

### **8.6 Individual hygiene measures:**

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

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

## **9- Physical and chemical properties**

Appearance: Green liquid.

Odour: Odourless.

Solubility: Soluble in water

pH : 3

Melting point/freezing point: 180 °C

Flash point: N/A

## **10- Stability and reactivity**

### **10.1 Conditions which should be avoided:**

---

### **10.2 Matter which should be avoided:**

---  
**10.3 Hazardous decomposition products:**

---  
**10.4 Complementary information:**

---

## 11- Toxicological information

### 11.1 Acute toxicity:

LD L0 oral rbt : 1.000 mg/kg

LD50 oral rat : 1.180 mg/kg

LD50 ipr mus : 150 mg/kg

### 11.2 Dangerous effects for health:

Swallowing of big quantities: Irritations in urinary tract.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## 12- Environmental information

### 12.1 Toxicity:

Ecotoxic data not available.

### 12.2 Persistence and Degradability :

Data not available.

### 12.3 Bioaccumulative potential:

Data not available.

### 12.4 Mobility in soil :

Data not available.

### 12.5 Assessment PBT and MPMB :

Data not available.

### 12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

## 13- Considerations regarding elimination

### 13.1 Substance or preparation:

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.

### 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.

#### **14- Information concerning transport**

Not classified as dangerous in the meaning of transport regulations.

#### **15- Regulatory information**

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

#### **16- Other information**

Other precautionary statements

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

**R-phrase(s):**

R22 Harmful if swallowed.

**S-phrase(s):**

---

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.