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# Methylene Blue Aqueous Staining Solution

# MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1	Product identifiers Product name	: Methylene Blue Aqueous Staining Solution		
1.2 Relevant identified uses of the substance or mixture and uses advised agai				
	Identified uses	: Laboratory chemicals, Industrial & for professional use only.		
1.3	Details of the supplier Company	of the safety data sheet : Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA		
	Telephone Email	: +91 11 49404040 : <u>care@cdhfinechemical.com</u>		
1.4	Emergency telephone Emergency Phone #	number : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]		

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# **SECTION 2: Hazards identification**

Supplemental Hazard

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

none

# 2.2 Label elements

Labelling according Regulati Pictogram	on (EC) No 1272/2008 none
Signal word	none
Hazard statement(s)	none
Precautionary statement(s)	none

Safety data sheet available on request.

#### 2.3 Other hazards

Statements

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

## 3.2 Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008						
Component		Classification	Concentration			
Methylthioninium chloride						
CAS-No.	61-73-4	Acute Tox. 4; H302	>= 1 - < 5 %			
EC-No.	200-515-2					

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

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2** Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas

#### **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Avoid breathing vapours, mist or gas. For personal protection see section 8.

#### 6.2 Environmental precautions No special environmental precautions required.

- 6.3 Methods and materials for containment and cleaning up Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 **Precautions for safe handling** For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Storage class (TRGS 510): Non Combustible Liquids

#### 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 workplace control parameters

# 8.2 Exposure controls

# Appropriate engineering controls

General industrial hygiene practice.

## Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

No special environmental precautions required.

#### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Form: liquid a) Appearance b) Odour No data available Odour Threshold No data available C) d) pН No data available Melting point/freezing No data available e) point Initial boiling point and No data available f) boiling range g) Flash point No data available Evaporation rate No data available h) Flammability (solid, gas) i) No data available

j)	Upper/lower	No data available
	flammability or	
	explosive limits	

- k) Vapour pressure No data available
- I) Vapour density No data available
- m) Relative density No data available
- n) Water solubility No data available
- o) Partition coefficient: n- No data available octanol/water
- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

# 9.2 Other safety information No data available

# SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials No data available
- **10.6 Hazardous decomposition products** Other decomposition products - No data available In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity LD50 Oral - Rat - 1.180 mg/kg (Methylthioninium chloride)

**Skin corrosion/irritation** No data available (Methylthioninium chloride)

Serious eye damage/eye irritation No data available (Methylthioninium chloride)

**Respiratory or skin sensitisation** No data available (Methylthioninium chloride)

#### Germ cell mutagenicity

Histidine reversion (Ames) (Methylthioninium chloride)

Mammal (Methylthioninium chloride) lymphocyte DNA damage

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

Reproductive toxicity - Rat - Oral

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). (Methylthioninium chloride)

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

# Aspiration hazard

No data available

# Additional Information

**RTECS:** Not available

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Vomiting, Diarrhoea, Nausea, Dizziness, Headache (Methylthioninium chloride)

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

Toxicity to fish	mortality LOEC - Pimephales promelas (fathead minnow) - 3 mg/l    - 7,0 d (Methylthioninium chloride)			
	mortality NOEC - Pimephales promelas (fathead minnow) - 1,5 mg/l - 7,0 d (Methylthioninium chloride)			
	LC50 - Pimephales promelas (fathead minnow) - 15 mg/l - 96,0 h (Methylthioninium chloride)			
Toxicity to daphnia and	EC50 - Daphnia magna (Water flea) - 2.260 mg/l - 48 h (Methylthioninium			
other aquatic invertebrates	chloride)			
Persistence and degradability				

- 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# 12.6 Other adverse effects

No data available

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

# **Contaminated packaging**

Dispose of as unused product.

# **SECTION 14: Transport information**

14.1	<b>UN number</b> ADR/RID: -	IMDG: -	IATA: -
14.2	UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods		
14.3	Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user No data available		

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

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

## 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

# **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.