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#### 1. Identification of the substance/preparation and of the company/undertaking

#### **1.1 Identification of the product**

Product number: M2153 Name of material: Methylene Blue CAS No.: 61-73-4 1.2 Recommended use and restriction on use General use : for experimental, research and industrial use Restriction on use : Never drink, Not used except for experimental, research and industrial applications. 1.3 Manufacturer / Supplier / Distributor information Importer/distributors identification Company : ASIA CHEMIE (THAILAND) CO., LTD. Address : 44/27 Moo.4 T.Huaykapi A.Muangchonburi, Chonburi, Thailand. 20130 Telephone number : +66 3838 7988

: asiachemie@gmail.com, natchakot@asiachemie.com, natchakot@gmail.com

#### 2. Hazards identification

Fax number

E-mail

#### 2.1 GHS Classification

Acute toxicity, Oral: Category 4

- 2.2 GHS label elements
- Hazard symbols



Signal words : Warning Hazard statements H302 Harmful if swallowed. Precautionary statements P264 Wash skin thoroughly after handling.

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

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

# 2.3 Other hazards which do not result in classification: (NFPA Classification)

Not available

#### 3. Composition/information on ingredients

Chemical Name	Synonyms	CAS No.	Concentration (%)
METHYLENE BLUE	-	61-73-4	100

## 4. First aid measures

#### 4.1 Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
- Get medical attention immediately.

#### 4.2 Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.
- Get medical attention immediately.

# 4.3 Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.
- Get medical attention immediately.
- If breathing is stopped or irregular, give artificial respiration and supply oxygen.

## 4.4 Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.



- Rinse your mouth with water immediately.
- Get medical attention immediately.
- 4.5 Delayed and immediate effects and also chronic effects from short and long term exposure
- Not available

#### 4.6 Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.
- If exposed or concerned, get medical attention/advice.

## 5. Fire-fighting measures

#### 5.1 Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing
- 5.2 Specific hazards arising from the chemical
- Not available

#### 5.3 Special protective actions for firefighters

- Notify your local firestation and inform the location of the fire and characteristics hazard.
- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.
- Avoid inhalation of materials or combustion by-products.
- Do not approach the tank surrounded by fire until it is extinguished.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Keep containers cool with water spray.

#### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Must work against the wind, let the upwind people to evacuate.
- Move container to safe area from the leak area.
- Remove all sources of ignition.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment
- Keep unauthorized people away, isolate hazard area and deny entry.

## **6.2 Environmental precautions**

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

## 6.3 Methods and materials for containment and cleaning up

- Large spill: Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small liquid state spills: Appropriate container for disposal of spilled material collected.
- Put the spilled material in an appropriate containers and clean the contaminated area.

#### 7. Handling and storage

## 7.1 Precautions for safe handling

- Wash thoroughly after handling.
- Avoid direct physical contact.
- Avoid contact with incompatible materials.
- Refer to Engineering controls and personal protective equipment.
- Contaminated work clothing should not be allowed out of the workplace.

## 7.2 Conditions for safe storage, including any incompatibilities

- Do not use damaged containers.
- Do not apply direct heat.
- Store according to current laws and regulations
- Avoid direct sunlight.
- Keep in the original container.
- Collected them in sealed containers.

# 8. Exposure controls/personal protection

8.1 Exposure limits ACGIH TLV - Not available



# **OSHA PEL**

#### - Not available

#### 8.2 Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

## 8.3 Individual protection measures, such as personal protective equipment

#### **Respiratory protection**

- Wear respiratory protection.

## Eye protection

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.

- Provide an emergency eye wash station and quick drench shower in the immediate work area.

#### Hand protection

- Wear appropriate glove.

## Skin protection

- Wear appropriate clothing

#### Others

- Not available

# 9. Physical and chemical properties

A. Appearance		
- Appearance	Solid (Other)	
- Color	Dark green	
B. Odor	Not available	
C. Odor threshold	Not available	
D. pH	Not available	
E. Melting point/Freezing point	Not available	
F. Initial Boiling Point/Boiling Ranges	Not available	
G. Flash point	Not available	
H. Evaporation rate	Not available	
I. Flammability (solid, gas)	Not available	
J. Upper/Lower Flammability or explosive limits	Not available	
K. Vapour pressure	Not available	
L. Solubility	Not available	
M. Vapour density	Not available	
N. Specific gravity (Relative density)	Not available	
O. Partition coefficient of n-octanol/water	Not available	
P. Autoignition temperature	Not available	
Q. Decomposition temperature	Not available	
R. Viscosity	Not available	
S. Molecular weight	319.86	
T. Molecular formula	C16H18ClN3S.xH2O (x = 2-3)	

## 10. Stability and reactivity

## **10.1 Chemical Stability**

- This material is stable under recommended storage and handling conditions.

## **10.2** Possibility of hazardous reactions

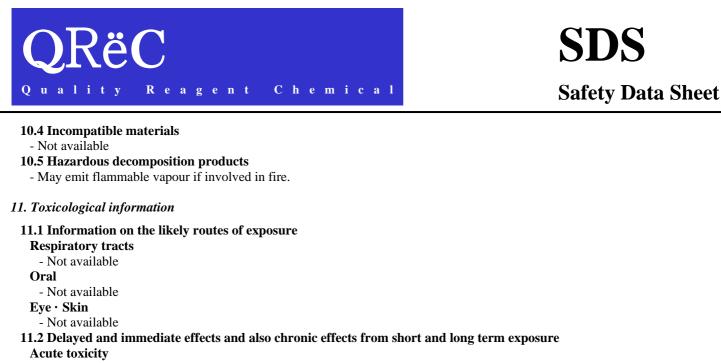
- Hazardous Polymerization will not occur.

## **10.3 Conditions to avoid**

- Avoid contact with incompatible materials and condition.
- Avoid: Accumulation of electrostatic charges, Heating, Flames and hot surfaces

## SDS: M2153 Methylene Blue

# Contact : info@qrec.asia, info@asiachemie.com



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- \* Oral
  - Not available
- \* Dermal
- Not available
- \* Inhalation
- Not available
- Skin corrosion/irritation
- Not available
- Serious eye damage/irritation
- Not available
- **Respiratory sensitization** Not available
- Skin sensitization
- Not available
- Carcinogenicity
- \* IARC
  - [METHYLENE BLUE]: Group 3
- \* OSHA
- Not available
- \* ACGIH
- Not available
- \* NTP
  - Not available
- \* EU CLP
- Not available
- Germ cell mutagenicity - Not available
- Reproductive toxicity
- Suspected of damaging fertility or the unborn child
- STOT-single exposure
- Not available
- STOT-repeated exposure
- Not available
- Aspiration hazard
- Not available

# 12. Ecological information

# 12.1 Ecotoxicity

Fish - LC50 - Pimephales promelas (fathead minnow) - 45 mg/l - 96 h Crustaceans - Not available Algae - EC50 - Daphnia magna (Water flea) - 2.260 mg/l - 48 h 12.2 Persistence and degradability - Not available SDS : M2153 Methylene Blue Contact : info@grec.asia, info@asiachemie.com



## 12.3 Bioaccumulative potential

- Not available
- 12.4 Mobility in soil
- Not available
- 12.5 Other adverse effects
  - Not available

# 13. Disposal considerations

# 13.1 Disposal methods

- Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them.
- Oil water separation technology shall be applied as pre-waste treatment if it is applicable.
- It shall be treated by incineration.

# 13.2 Special precautions for disposal

- Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act
- Dispose of waste in accordance with all applicable laws and regulations.

# 14. Transport information

## 14.1 UN No. (IMDG CODE/IATA DGR)

- Not applicable
- 14.2 Proper shipping name
- Not applicable
- 14.3 Hazard Class
- Not applicable
- 14.4 IMDG CODE/IATA DGR Packing group
  - Not applicable
- 14.5 Marine pollutant
- Not applicable

# 14.6 Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency
- requirements.
- EmS FIRE SCHEDULE: Not available
- EmS SPILLAGE SCHEDULE: Not available
- Air transport (IATA): Not subject to IATA regulations.

## 15. Regulatory information

# 15.1 National and/or international regulatory information

- POPs Management Law
- Not applicable
- Information of EU Classification
  - \* Classification
  - Not applicable
- **U.S. Federal regulations**
- \* OSHA PROCESS SAFETY (29CFR1910.119)
- Not applicable
- \* CERCLA Section 103 (40CFR302.4)
- Not applicable
- \* EPCRA Section 302 (40CFR355.30) - Not applicable
- \* EPCRA Section 304 (40CFR355.40)
- Not applicable
- \* EPCRA Section 313 (40CFR372.65) - Not applicable
- Rotterdam Convention listed ingredients - Not applicable
- Stockholm Convention listed ingredients
  - Not applicable



#### **Montreal Protocol listed ingredients**

- Not applicable

#### 16. Other information

**Reason for the revision:** General update. Date: 12/08/2014

**Revision #2** Date: 21/11/2022

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