

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/02/2018

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Methylene Blue [Ion association reagent for spectrophotometric analysis]

Product code: A5105

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

 Acute toxicity (Oral)
 Category 4

 Skin corrosion/irritation
 Category 2

 Serious eye damage/eye irritation
 Category 2

 Reproductive toxicity
 Category 2

 Specific target organ toxicity - Single exposure [Category 1]
 Blood system

 Specific target organ toxicity - Repeated exposure [Category 1]
 Blood system

 Long-term aquatic hazard
 Category 3

## 2.2 Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements
H302-Harmful if swallowed.
H315-Causes skin irritation.
H319-Causes serious eye irritation.

H361fd-Suspected of damaging fertility. Suspected of damaging the unborn child.

H370-Causes damage to organs : Blood system

H372-Causes damage to organs through prolonged or repeated exposure : Blood system

H412-Harmful to aquatic life with long lasting effects. P260-Do not breathe dust/fume/gas/mist/vapours/spray.

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

P280-Wear protective gloves, protective clothing, face protection.

P302+P352+P332+P313+P362+P364-IF ON SKIN: Wash with plenty of water. If skin irritation occurs:

Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice

or attention.

P308+P311-If exposed or concerned: Call a POISON CENTER or doctor.

2.3 Other hazards

Results of PBT and vPvB assessment

**Precautionary statements** 

PBT: Not applicable

A5105 Methylene Blue [lon association

reagent for spectrophotometric

analvsis1

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vPvB: Not applicable

## SECTION 3: Composition/information on ingredients

3.1 Substances

Components: Methylene Blue [Ion association reagent for spectrophotometric analysis]

 Percent:
 >98.0%(T)

 CAS RN:
 61-73-4

 EC-No:
 200-515-2

 Synonyms:
 Basic Blue 9

 Chemical Formula:
 C16H18CIN3S

## SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Call a POISON CENTER or doctor/physician.

Ingestion: Call a POISON CENTER or doctor/physician. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

No data available

## 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:** Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride, Sulfur oxides

**5.3 Advice for firefighters** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according

to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure

to wear personal protective equipment

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**6.4 Reference to other sections** For disposal see section 13.

## SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible.

Use a local exhaust if dust or aerosol will be generated. Avoid all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from

incompatible materials such as oxidizing agents.

7.3 Specific end use(s) No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Impervious gloves.

Safety goggles. A face-shield, if the situation requires. Eye protection:

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C):

Form: Crystal - Powder

Colour: Yellow green - Deep green

Odour: Nearly odorless pH: No data available Melting point/freezing point: No data available Boiling point/range: No data available Flash point: No data available Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits: Lower:

No data available No data available Upper: Vapour pressure: No data available. Vapour density: No data available Relative density: No data available

Solubility(ies):

Hand protection:

[Water] Soluble (43.6g/L, 25°C)

[Other solvents]

Soluble: Chloroform, Glycerol

Slightly soluble: Ethanol Very slightly soluble: Acetone Insoluble: Ether, Xylene Partition coefficient: No data available

n-octanol/water:

No data available Autoignition temperature: Decomposition temperature: No data available No data available **Dynamic Viscosity:** No data available Kinematic viscosity:

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 proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid No data available

10.5 Incompatible materials Oxidizing agents, Reducing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride, Sulfur oxides

Methylene Blue [Ion association reagent for spectrophotometric

analysis]

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Acute Toxicity: orl-rat LD50:1180 mg/kg

ivn-rat LD50:1250 mg/kg scu-rat LD50:190 mg/kg ipr-rat LD50:180 mg/kg No data available

Skin corrosion/irritation:

Serious eye damage/irritation:

Respiratory or skin sensitization:

Germ cell mutagenicity:

No data available
No data available
dnr-sat 10 pph

mmo-esc 2 umol/L (-S9) mmo-sat 20 ug/plate (-S9)

mrc-smc 10 pph

Carcinogenicity:

IARC = No data available
NTP = No data available

Reproductive toxicity: scu-mus TDLo:35 mg/kg (8D preg) orl-rat TDLo:2500 mg/kg (1-22D preg)

STOT-single exposure: No data available STOT-repeated exposure: No data available Aspiration hazard: No data available RTECS Number: SO5600000

# SECTION 12: Ecological information

## 12.1 Toxicity

Fish: 48h LC50:13 mg/L (Oryzias latipes)
96h LC50:15 mg/L (Pimephales promelas)
Crustacea: 48h EC50:2260 mg/L (Daphnia magna)

Algae: No data available

**12.2 Persistence and degradability** No data available

**12.3 Bioaccumulative potential**No data available

12.4 Mobility in soil

Log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law (PaM ³/mol): No data available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Methylene Blue [Ion association reagent for spectrophotometric

analysis]

## SECTION 14: Transport information

14.1 UN number Not listed

14.2 UN proper shipping name

ADR/RID Not listed
IMDG/IMO Not listed
ICAO/IATA Not listed

14.3 Transport hazard class(es)

ADR/RID Does not correspond to the classification standard of the United Nations
IMDG/IMO Does not correspond to the classification standard of the United Nations
ICAO/IATA Does not correspond to the classification standard of the United Nations

14.4 Packaging group

ADR/RID IMDG/IMO ICAO/IATA -

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

## SECTION 15: Regulatory information

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

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/02/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet** 

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