

# Safety Data Sheet

## Environmental Protection Authority

Hazardous Substances (identification)  
Regulations 2004 (NZ)



Product Name <b>Methylene Blue 0.5% Solution</b>	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
---	---

### Section 1

Manufacturer's Name: Pacific Rim Oenology Services	Emergency Telephone Number: National Poisons 24hr: 0800 764 766
Address (Number, Street, City, Region, and Post Code): 4 Bristol St, Riverlands, Blenheim, Marlborough, 7274	Telephone Number for Information: (+64) (0) 3 577-9000
PO Box 1132, Blenheim 7240	Original - Issue date: 25/07/17 - 14/11/17
New Zealand	

### Section 2 - Hazard(s) identification

Hazardous Components (Specific Chemical Identity; Common Name(s))	HSNO for components	Classification
Methylene Blue #61-73-4	HSR003661	6.4A, 9.1C

### Section 3 - Label Elements

None required

**Signal Word** None required

#### Hazard statements

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

#### Precautionary statements

P264 - Wash face, hands and any exposed skin 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

P403 - Store in a well-ventilated place

P501 - Dispose of contents/ container to an approved waste disposal plant

### Section 4 - Composition and information on ingredients

Component	CAS-No	Weight %
Methylene Blue	61-73-4	0-1

## Section 5 - First Aid Measures

Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Most important symptoms/effects	None reasonably foreseeable. Low hazard. May cause eye, respiratory and digestive irritation.
Inhalation	Move to fresh air.
Ingestion	Clean mouth with water and drink 2-4 cups of milk or water.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First Aid Facilities	Eyewash, safety shower and washroom.
Notes to Physician	Treat symptomatically. Symptoms may be delayed.

## Section 6 - Fire Fighting Measures

### Suitable Extinguishing Media

Cool closed containers exposed to fire with water spray.  
Foam, dry powder, carbon dioxide, water spray or sand.

### Unsuitable extinguishing Media

Do not use heavy water stream.

### Hazardous Combustion Products

#### Specific Hazards Arising from the Chemical

Under fire conditions, hazardous fumes will be present.

### Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 7 - Accidental Release Measures

### Emergency procedures

Ensure adequate ventilation.

Use personal protective equipment.

### Environmental Precautions

See Section 13 for additional ecological information.

Should not be released into the environment.

### Methods for Containment and Clean Up

Soak up spills with inert material. Keep in suitable container, closed, for disposal.

### Reference to Other Sections

Refer to protective measures listed in Sections 9 and 14.

## Section 8 - Handling and Storage

### Precautions for Safe Handling

Wear personal protective equipment.

Ensure adequate ventilation.

Do not get in eyes, avoid ingestion and inhalation.

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

AS/NZS 2243.10:2004, Safety in Laboratories - Storage of chemicals

## Section 9 - Exposure Controls and Personal Protection

### Exposure limits

Workplace Exposure Standards and Biological Exposure Indices (8th edition). New Zealand Department of Labour

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established.

### Biological limit values

Substances assigned Biological Exposure Indices in the New Zealand Workplace Exposure Standards and Biological Exposure Indices (8th edition). New Zealand Department of Labour.

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

### Personal protective equipment

Eye Protection	Safety glasses with side-shields (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications).
Hand Protection	Protective gloves.
Skin and body protection	Long sleeved clothing.
Respiratory Protection	Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use and maintenance of respiratory protective devices.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system.

## Section 10 - Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	Dark blue
Physical State	Liquid
Odour	Odourless
Odour Threshold	No data available
pH	Not applicable
Melting Point/Range	No data available
Softening Point	No data available
Boiling Point/Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable - Liquid
Explosion Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Specific Gravity / Density	No data available

Bulk Density	Not applicable
Water Solubility	Soluble
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	Not applicable
Component	<b>log Pow</b>
Ethyl alcohol	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidising Properties	No information available
<b>Other information</b>	
Molecular Formula	No data available
Molecular Weight	No data available

## Section 11 - Stability and Reactivity

Reactivity	None known, based on information available
Stability	Stable under normal conditions
Conditions to Avoid	Keep away from excess heat and incompatible products
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerisation	Hazardous polymerisation will not occur.

## Section 12 - Toxicological Information

Information on Toxicological Effects  
Product Information

<b>a) acute toxicity;</b>	
Oral	Based on available data, the classification criteria are not met
Dermal	Based on available data, the classification criteria are not met
Inhalation	Based on available data, the classification criteria are not met
<b>(b) skin corrosion/irritation;</b>	No data available
<b>(c) serious eye damage/irritation;</b>	Based on available data, the classification criteria are not met
<b>(d) respiratory or skin sensitisation;</b>	No data available
Respiratory	No data available
Skin	No data available
<b>(e) germ cell mutagenicity;</b>	None known
<b>(f) carcinogenicity;</b>	None known
<b>(g) reproductive toxicity;</b>	No data available
<b>(h) STOT-single exposure;</b>	No data available
<b>(i) STOT-repeated exposure;</b>	No data available
Target Organs	None known
<b>(j) aspiration hazard;</b>	No data available
Symptoms / effects, both acute and delayed	None reasonably foreseeable. Low hazard. May cause eye, respiratory and digestive irritation.

## Section 13 - Ecological Information

Ecotoxicity effects	Contains a substance known to be harmful to aquatic organisms if in large quantities
Persistence and Degradability	
Persistence	Persistence is unlikely, based on information available.
Degradation in sewage	Contains no substances known to be hazardous to the environment or not degradable in waste
Treatment plant	Water treatment plants
Bioaccumulative Potential	Bioaccumulation is unlikely
Mobility	The product is soluble in water, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.
Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors
Persistent Organic Pollutant	This product does not contain any known or suspected substance
Ozone Depletion Potential	This product does not contain any known or suspected substance

The product contains following substances which are hazardous for the environment:

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Methylene Blue	Mystus vittatus LC50: 18.5 mg/L,96hrs			

## Section 14 - Disposal Considerations

### Waste from Residues / Unused Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.  
Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations.  
Assure conformity with all applicable regulations.

### Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous.

### Other Information

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations.  
Do not dispose of waste into sewer.  
Waste codes should be assigned by the user based on the application for which the product was used.  
Can be incinerated, when in compliance with local regulations.

## Section 15 - Transport Information

### IMDG/IMO

UN-No Not regulated

Proper Shipping Name

Hazard Class

Packing Group

UN-No Not regulated  
Proper Shipping Name  
Hazard Class  
Packing Group

#### IATA

UN-No Not regulated  
Proper Shipping Name  
Hazard Class  
Packing Group

Environmental hazards No hazards identified  
Special Precautions No special precautions required  
Additional information None known

## Section 16 - Regulatory Information

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

Component	HSNO Approval Number
Methylene Blue solution	HSR002596

## Section 17 - Other Information

### Legend

**POW** - Partition Coefficient Octanol:Water

**LC50** - Lethal Dose 50%

### Key literature references and sources for data

Suppliers safety data sheet, EPA, NZTA, NZ Safety

For a correlation of GHS and HSNO classes and categories refer to:

<http://www.epa.govt.nz/publications/hsnogen-ghs-nz-hazard.pdf>

### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

**Revision Date:** 17/08/2020

**Revision Summary:** Update toxicology

**Version:** 3

**Owner:** Laboratory Manager

### Disclaimer

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.*

**End of Safety Data Sheet**