

**SAFETY DATA SHEET****METHYLENE BLUE SOLUTION (42510, 42513, 42514, 42515, 42517)**

Revision Date: 30-Sep-2015

Revision Number: 14

**1. Product Identifier & Identity for the Chemical**

**Statement of Hazardous Nature** Non-Hazardous according to the criteria of the 3rd Revised Edition of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS), Non-Dangerous Goods according to the criteria of ADG.

**1.1. Product Identifier**

**Product Name** METHYLENE BLUE SOLUTION (42510, 42513, 42514, 42515, 42517)

**Other means of Identification**

**Synonyms:** None  
**Product Code:** HM003986

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Reagent  
**Uses Advised Against** No information available

**Supplier's name, address and phone number**

**Manufacturer/Supplier** Halliburton Australia Pty. Ltd.  
15 Marriott Road  
Jandakot  
WA 6164  
Australia  
  
ACN Number: 009 000 775  
Telephone Number: + 61 1 800 686 951  
Fax Number: 61 (08) 9455 5300  
**E-Mail address:** fdunexchem@halliburton.com

**Emergency phone number**

+ 61 1 800 686 951

**Australian Poisons Information Centre**

24 Hour Service: - 13 11 26  
Police or Fire Brigade: - 000 (exchange): - 1100

**2. Hazard Identification**

**Statement of Hazardous Nature** Non-Hazardous according to the criteria of the 3rd Revised Edition of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS), Non-Dangerous Goods according to the criteria of ADG.

**Classification of the hazardous chemical**

Not classified

**Label elements, including precautionary statements****Hazard Pictograms**

**Signal Word** Not Hazardous

**Hazard Statements** Not Classified

**Precautionary Statements**

**Prevention** None

**Response** None

**Storage** None

**Disposal** None

**Contains Substances**

Contains no hazardous substances in concentrations above cut-off values according to the competent authority

**CAS Number**

NA

**Other hazards which do not result in classification**

None known

**Australia Classification**

*For the full text of the H-phrases mentioned in this Section, see Section 16*

**Classification** Not Classified

**Risk Phrases** None

### 3. Composition/information on Ingredients

| Substances   | CAS Number | PERCENT (w/w) | GHS Classification - Australia |
|--|------------|---------------|--------------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | 60 - 100%     | Not Applicable                 |

### 4. First aid measures

**Description of necessary first aid measures**

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**Skin** Wash with soap and water. Get medical attention if irritation persists.

**Ingestion** Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

**Symptoms caused by exposure**

No significant hazards expected.

**Medical Attention and Special Treatment**

**Notes to Physician** Treat symptomatically

### 5. Fire Fighting Measures

**Suitable extinguishing equipment**

**Suitable Extinguishing Media**

All standard fire fighting media

**Extinguishing media which must not be used for safety reasons**

None known.

**Specific hazards arising from the chemical****Special Exposure Hazards**

Not applicable.

**Special protective equipment and precautions for fire fighters****Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment.

**6.2. Environmental precautions**

None known.

**6.3. Methods and material for containment and cleaning up**

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

**7. Handling and storage****7.1. Precautions for Safe Handling****Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Information**

Store in a cool, dry location. Keep container closed when not in use.

**Other Guidelines**

No information available

**8. Exposure Controls/Personal Protection****Control parameters - exposure standards, biological monitoring****Exposure Limits**

| Substances   | CAS Number | Australia NOHSC | ACGIH TLV-TWA  |
|--|------------|-----------------|----------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable  | Not applicable |

**Appropriate engineering controls****Engineering Controls**

Use in a well ventilated area.

**Personal protective equipment (PPE)****Respiratory Protection**

Not normally necessary.

**Hand Protection**

Impervious rubber gloves.

**Skin Protection**

Rubber apron.

**Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Precautions**

None known.

**Environmental Exposure Controls**

No information available

**9. Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

**Physical State:** Liquid  
**Odor:** Odorless

**Color:** Blue  
**Odor Threshold:** No information available

PropertyRemarks/ - MethodValues**pH:**

No data available

**Freezing Point/Range**

No data available

**Melting Point/Range**

No data available

**Boiling Point/Range**

No data available

**Flash Point**

No data available

**Evaporation rate**

No data available

**Vapor Pressure**

No data available

**Vapor Density**

No data available

**Specific Gravity**

1

**Water Solubility**

Soluble in water

**Solubility in other solvents**

No data available

**Partition coefficient: n-octanol/water**

No data available

**Autoignition Temperature**

No data available

**Decomposition Temperature**

No data available

**Viscosity**

No data available

**Explosive Properties**

No information available

**Oxidizing Properties**

No information available

**9.2. Other information****VOC Content (%)**

No data available

**10. Stability and Reactivity****10.1. Reactivity**

Not expected to be reactive.

**10.2. Chemical Stability**

Stable

**10.3. Possibility of Hazardous Reactions**

Will Not Occur

**10.4. Conditions to Avoid**

None anticipated

**10.5. Incompatible Materials**

None known.

**10.6. Hazardous Decomposition Products**

None known.

**11. Toxicological Information****Information on routes of exposure****Principle Route of Exposure** Eye or skin contact, inhalation.**Symptoms related to exposure****Most Important Symptoms/Effects**

No significant hazards expected.

**Numerical measures of toxicity****Toxicology data for the components**

| Substances   | CAS Number | LD50 Oral         | LD50 Dermal       | LC50 Inhalation   |
|--|------------|-------------------|-------------------|-------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent | NA         | No data available | No data available | No data available |

|           |  |  |  |  |
|-----------|--|--|--|--|
| authority |  |  |  |  |
|-----------|--|--|--|--|

**Immediate, delayed and chronic health effects from exposure**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause mild respiratory irritation.  |
| <b>Eye Contact</b>  | May cause mild eye irritation.  |
| <b>Skin Contact</b> | Prolonged or repeated contact may cause slight skin irritation.   |
| <b>Ingestion</b>    | Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea. |

**Chronic Effects/Carcinogenicity** No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

**Exposure Levels**

No data available

**Interactive effects**

None known.

**Data limitations**

No data available

| Substances   | CAS Number | Skin corrosion/irritation |
|--|------------|---------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable.           |

| Substances   | CAS Number | Eye damage/irritation |
|--|------------|-----------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable.       |

| Substances   | CAS Number | Skin Sensitization |
|--|------------|--------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable     |

| Substances   | CAS Number | Respiratory Sensitization |
|--|------------|---------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable            |

| Substances   | CAS Number | Mutagenic Effects |
|--|------------|-------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable    |

| Substances   | CAS Number | Carcinogenic Effects |
|--|------------|----------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable       |

| Substances            | CAS Number | Reproductive toxicity |
|-----------------------|------------|-----------------------|
| Contains no hazardous | NA         | Not applicable        |

|  |  |  |
|--|--|--|
| substances in concentrations above cut-off values according to the competent authority |  |  |
|--|--|--|

| Substances   | CAS Number | STOT - single exposure |
|--|------------|------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable         |

| Substances   | CAS Number | STOT - repeated exposure |
|--|------------|--------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable           |

| Substances   | CAS Number | Aspiration hazard |
|--|------------|-------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | Not applicable    |

## 12. Ecological Information

### Ecotoxicity

#### Product Ecotoxicity Data

No data available

#### Substance Ecotoxicity Data

| Substances   | CAS Number | Toxicity to Algae        | Toxicity to Fish         | Toxicity to Microorganisms | Toxicity to Invertebrates |
|--|------------|--------------------------|--------------------------|----------------------------|---------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | No information available | No information available | No information available   | No information available  |

### 12.2. Persistence and degradability

| Substances   | CAS Number | Persistence and Degradability |
|--|------------|-------------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | No information available      |

### 12.3. Bioaccumulative potential

| Substances   | CAS Number | Log Pow                  |
|--|------------|--------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | No information available |

### 12.4. Mobility in soil

| Substances   | CAS Number | Mobility                 |
|--|------------|--------------------------|
| Contains no hazardous substances in concentrations above cut-off values according to the competent authority | NA         | No information available |

### 12.6. Other adverse effects

#### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

### 13. Disposal Considerations

#### Safe handling and disposal methods

Disposal should be made in accordance with federal, state, and local regulations.

#### Disposal of any contaminated packaging

Follow all applicable national or local regulations.

#### Environmental regulations

Not applicable

### 14. Transport Information

#### Transportation Information

|                             |                |
|-----------------------------|----------------|
| UN Number:                  | Not restricted |
| UN Proper Shipping Name:    | Not restricted |
| Transport Hazard Class(es): | Not applicable |
| Packing Group:              | Not applicable |
| Environmental Hazards:      | Not applicable |

#### Special precautions during transport

None

#### HazChem Code

None Allocated

### 15. Regulatory Information

#### Safety, health and environmental regulations specific for the product

#### International Inventories

##### **Australian AICS Inventory**

Product contains one or more components not listed on inventory.

##### **New Zealand Inventory of Chemicals**

All components listed on inventory or are exempt.

##### **EINECS Inventory**

This product, and all its components, complies with EINECS

##### **US TSCA Inventory**

Product contains one or more components not listed on the inventory.

##### **Canadian DSL Inventory**

Product contains one or more components not listed on the inventory.

#### Poisons Schedule number

None Allocated

### 16. Other information

#### Date of preparation or review

Revision Date: 30-Sep-2015

#### Revision Note

SDS sections updated: 2

#### Full text of R-phrases referred to under Sections 2 and 3

None

#### Full text of H-Statements referred to under sections 2 and 3

None

#### Additional information

For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

**Key abbreviations or acronyms used**

bw – body weight CAS – Chemical Abstracts Service EC50 – Effective Concentration 50% LC50 – Lethal Concentration 50% LD50 – Lethal Dose 50% LL50 – Lethal Loading 50% mg/kg – milligram/kilogram mg/L – milligram/liter NOEC – No Observed Effect Concentration OEL – Occupational Exposure Limit PBT – Persistent Bioaccumulative and Toxic ppm – parts per million STEL – Short Term Exposure Limit TWA – Time-Weighted Average vPvB – very Persistent and very Bioaccumulative h - hour mg/m<sup>3</sup> - milligram/cubic meter mm - millimeter mmHg - millimeter mercury w/w - weight/weight d - day

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

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**End of Safety Data Sheet**