



## IBI SCIENTIFIC

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Rev. 3

### 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

|                                |  |
|--------------------------------|--|
| <b>Product Name:</b>           | Methylene Blue, Chloride, Trihyd   |
| <b>Product Code:</b>           | IB74050  |
| <b>Recommend Use:</b>          | For further manufacturing use only<br>Not for human or animal drug use<br>Non-intercalating post-electrophoretic stain for DNA. Also used to stain RNA in biological procedures.   |
| <b>Synonyms:</b>               | AIZEN METHYLENE BLUE BH * AIZEN METHYLENE BLUE FZ * BASIC BLUE 9 * 3,7-BIS (SIMETHYLAMINO) PHENAZATHONIUM CHLORIDE * 3,7BIS(DIMETHYLAMINO) PHENAZATHONIUM CHLORIDE * 3,7BIS(DIMETHYLAMINO)PHENOTHIAZIN-5-IUM CHLORIDE * CALCOZINE BLUE ZF * CHROMOSMON * C.I. 52015 (CZECH) * C.I. BASIC BLUE 9 * D AND C BLUE NO. 1 * EXT D AND C BLUE NO. 1 * EXTERNAL BLUE 1 * HIDACO METHYLENE BLUE-SALT FREE * LEATHER PURE BLUE HB * METHYLENBLAU (GERMAN) * METHYLENEBLUE * METHYLENE BLUE A * METHYLENE BLUE B * METHYLENE BLUE 2B * METHYLENE BLUE BB * METHYLENE BLUE BBA * METHYLENE BLUE BB (ZINC FREE) * METHYLENE BLUE BD * METHYLENE BLUE 2BF * METHYLENE BLUE 2BN * METHYLENE BLUE BP * METHYLENE BLUE 2BP * METHYLENE BLUE BPC * METHYLENE BLUE BX * METHYLENE BLUE BZ * METHYLENE BLUE CHLORIDE * METHYLENE BLUE CHLORIDE (BIOLOGICAL STAIN) * METHYLENE BLUE D * METHYLENE BLUE FZ * METHYLENE BLUE G * METHYLENE BLUE GZ * METHYLENEBLUE HGG * METHYLENE BLUE IAD * METHYLENE BLUE I (MEDICAL) * METHYLENE BLUE JFA * METHYLENE BLUE (MEDICINAL) * METHYLENE BLUE N * METHYLENE BLUE NF ( MEDICINAL) * METHYLENE BLUE NZ * METHYLENE BLUEPOLYCHROME * METHYLENE BLUE SG * METHYLENE BLUE SP * METHYLENE BLUE USP (MEDICINAL) * METHYLENE BLUE USP XII (MEDICINAL) * METHYLENE BLUE ZF * METHYLENE BLUE ZINC FREE * METHYLENE BLUE ZX * METHYLENIUMCERULEUM * METHYLTHIONINE * METHYLTHIONINE CHLORIDE * METHYLTHIONIUMCHLORIDE * MITSUI METHYLENE BLUE * MODR METHYLENOVA (CZECH) * MODR ROZPOUSTEDLOVA 8 (CZECH) * MODR ZASADITA 9 (CZECH) * PHENOOTHIAZIN-5-IUM, 3,7-BIS(DIMETHYLAMINO)-, CHLORIDE * SANDOCRYL BLUE BRL * SCHULTZNO. 1038 * SWISS BLUE * TETRAMETHYLENE BLUE * TETRAMETHYLTHIONINE CHLORIDE * YAMAMOTO METHYLENE BLUE B * YAMAMOTO METHYLENE BLUE ZF * |
| <b>Company:</b>                | IBI SCIENTIFIC<br>9861 Kapp Court<br>Peosta, IA 52068  |
| <b>Emergency Tele. Number:</b> | 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703  |
| <b>Company Tele. Number:</b>   | 1-800-253-4942 / (001) 563-690-0484  |
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## 2. HAZARDOUS IDENTIFICATION

### GHS – Classification

**Classification:** Skin Irritant 2 Eye Irritant 2

**Signal Word:** Warning



**Hazard Statements:** H315-Causes skin irritation \* H319-Causes serious eye irritation \* H335-May cause respiratory irritation.

**Precautionary Statements:** P280-Wear protective gloves/protective clothing/eye protection/face protection \* P302+P352-IF ON SKIN: Wash with plenty of soap and water \* P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing \* P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name:** Methylene Blue, Chloride, Trihyd  
**EC No.:** EEC No. 200-515-2  
**REACH Reg. No.:** Not Available  
**CAS No.:** 7220-79-3  
**Weight %:** 95 – 100  
**Classification:** -

## 4. FIRST AID MEASURES

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**Skin Contact:** Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.  
**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen.  
**Ingestion:** Clean mouth with water and afterwards drink plenty of water.  
**Notes to Physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Not flammable  
**Flash Point:** Not determined  
**Suitable Extinguishing Media:** Dry chemical, CO<sub>2</sub>, water spray, regular foam  
**Hazardous Combustion Products:** Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulfur oxides, Hydrogen chloride gas  
**Explosion Data**  
Sensitivity to Mechanical Impact: Not sensitive  
Sensitivity to Static Discharge: Not sensitive  
**Protective Equip. & Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

|                                 |  |
|---------------------------------|--|
| <b>Personal Precautions:</b>    | Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation.                                     |
| <b>Methods for Containment:</b> | Prevent further leakage or spillage, if safe to do so.   |
| <b>Methods for Cleaning Up:</b> | Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete. |

## 7. HANDLING AND STORAGE

|                               |   |
|-------------------------------|---|
| <b>Handling:</b>              | Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.   |
| <b>Storage:</b>               | Keep container tightly closed in a dry, cool, and well-ventilated place. Hygroscopic. |
| <b>Incompatible Products:</b> | Bases. Reducing agents.   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                              |  |
|------------------------------|--|
| <b>Chemical Name:</b>        | Methylene Blue, Chloride, Trihyd - #7220-79-3  |
| <b>ACGIH TLV:</b>            | -  |
| <b>OSHA PEL:</b>             | -  |
| <b>NIOSH IDLH:</b>           | -  |
| <b>Engineering Measures:</b> | Showers, Eyewash Stations, Ventilation Systems |

### Personal Protective Equipment

|                          |   |
|--------------------------|---|
| Eye/Face Protection:     | Tight fitting safety goggles.   |
| Skin & Body Protection:  | Wear protective gloves/clothing.  |
| Respiratory Protection:  | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene Measures:</b> | Handle in accordance with good industrial hygiene and safety practice.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| <b>Appearance:</b>                              | Iridescent green-black powder                                     |
| <b>Odor:</b>                                    | No information available  |
| <b>Odor Threshold:</b>                          | No information available  |
| <b>Decomposition Temp. °C:</b>                  | No information available  |
| <b>Freezing Point:</b>                          | No information available  |
| <b>Initial Boiling Point:</b>                   | No information available  |
| <b>Physical State:</b>                          | Powder  |
| <b>pH:</b>                                      | No data available   |
| <b>Flash Point:</b>                             | Not determined  |
| <b>Autoignition Temp. °C:</b>                   | No data available   |
| <b>Boiling Point/Range:</b>                     | No data available   |
| <b>Melting Point/Range:</b>                     | No data available   |
| <b>Flammability Limits (Air):</b>               | <u>Upper</u> -No data available * <u>Lower</u> -No data available |
| <b>Explosion Limits</b>                         | No information available  |
| <b>Explosive Properties:</b>                    | No information available  |
| <b>Oxidizing Properties:</b>                    | No information available  |
| <b>Evaporation Rate:</b>                        | No information available  |
| <b>MMHG @ 37.8°C:</b>                           | No data available   |
| <b>Vapor Density:</b>                           | No data available   |
| <b>Specific Gravity:</b>                        | No data available   |
| <b>Solubility:</b>                              | No information available  |
| <b>Partition Coefficient (n-octanol/water):</b> | No data available   |
| <b>Viscosity:</b>                               | No information available  |

## 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Stability:</b>                        | Stable under recommended storage conditions   |
| <b>Incompatible Products:</b>            | Bases. Reducing agents.   |
| <b>Conditions to Avoid:</b>              | None known based on information supplied.   |
| <b>Hazardous Decomposition Products:</b> | Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Sulfur oxides, Hydrogen chloride gas |
| <b>Hazardous Polymerization:</b>         | Hazardous polymerization does not occur.  |

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

|                      |  |
|----------------------|--|
| Product Information: | Irritating to eye, skin, and respiratory system. |
|----------------------|--|

### Chronic Toxicity

|                   |  |
|-------------------|--|
| Chronic Toxicity: | No known effect based on information supplied. |
|-------------------|--|

|                              |             |
|------------------------------|-------------|
| <b>Target Organ Effects:</b> | None known. |
|------------------------------|-------------|

## 12. ECOLOGICAL INFORMATION

|                            |  |
|----------------------------|--|
| <b><u>Ecotoxicity:</u></b> | The environmental impact of this product has not been fully investigated |
|----------------------------|--|

## 13. DISPOSAL CONSIDERATIONS

|                                |   |
|--------------------------------|---|
| <b>Water Disposal Method:</b>  | Dispose of material in accordance with all federal, state, and local regulations. |
| <b>Contaminated Packaging:</b> | Dispose of in accordance with all federal, state, and local regulations.          |

## 14. TRANSPORT INFORMATION

### IATA

Not regulated

### US DOT

Not regulated

## 15. TOXICOLOGICAL INFORMATION

### **REACH Title VII Restrictions**

|  |   |
|--|---|
| Chemical Name:   | No information available                      |
| Dangerous Substances:  | Methylene Blue, Chloride, Trihyd - #7220-79-3 |
| Organic Solvents:  | Not applicable                                |
| Harmful Substances Whose Names are to be indicated on the Label:                               | Not applicable                                |
| Pollution Release and Transfer Registry (Class II):  | Not applicable                                |
| Pollution Release and Transfer Registry (Class I):   | Not applicable                                |
| Poison and Deleterious Substances Control Law:   | Not applicable                                |
| ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying: | Not applicable                                |
| ISHA – Harmful Substances Requiring Permission:  | Not applicable                                |
| Toxic Chemical Classification Listing (TCCL):  | Not applicable                                |
| Toxic Release Inventory (TRI) – Group I:   | Not applicable                                |
| Toxic Release Inventory (TRI) – Group II:  | Not applicable                                |

**International Inventories**

|                |                 |
|----------------|-----------------|
| TSCA:          | Does not comply |
| EINECS/ELINCS: | Does not comply |
| ENCS:          | Does not comply |
| IECSC:         | Does not comply |
| KECL           | Does not comply |
| PICCS          | Does not comply |
| AICS           | Does not comply |

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**Clean Water Act**

This product contains the following substances which are regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**International Regulations**

**Mexico**

No information available

**Canada**

No information available

**WHMIS Hazard Class**

D2B – Toxic materials



**16. OTHER INFORMATION**

**Issuing Date:** 8-Jan-1998  
**Revision Date:** 9-Nov-2011  
**Revision Note:** Update to GHS Standard  
**Recommended Restrictions:** No information available  
**Disclaimer:** The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as 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 material or in any process, unless specified in the test.

**End of MSDS**