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Rev. 5

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

Product Name: Methylene Blue, Chloride, Trihyd

Product Code: IB74050

Recommend Use: For further manufacturing use only
Not for human or animal drug use
Non-intercalating post-electrophoretic stain for DNA. Also used to stain RNA in biological procedures.

Synonyms: 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 *

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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, CO₂, water spray, regular foam

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides (NO_x), 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

Personal Precautions:	Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation.
Methods for Containment:	Prevent further leakage or spillage, if safe to do so.
Methods for Cleaning Up:	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

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name:	Methylene Blue, Chloride, Trihyd - #7220-79-3
ACGIH TLV:	-
OSHA PEL:	-
NIOSH IDLH:	-
Engineering Measures:	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.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Incompatible Products:	Bases. Reducing agents.
Conditions to Avoid:	None known based on information supplied.
Hazardous Decomposition Products:	Carbon oxides, Nitrogen oxides (NO _x), Sulfur oxides, Hydrogen chloride gas
Hazardous Polymerization:	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.

Target Organ Effects: None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.
Contaminated Packaging: 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 does not contain 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 does not contain any 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: 6-Jun-2018
Revision Note: Updated address and logo
Recommended Restrictions: No information available
Disclaimer: The information provided on this SDS 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 Safety Data Sheet