

## Safety Data Sheet

Version 3.10 Revised: 2016-05-02

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Methylene Blue, Chloride, Trihyd

Other means of identification

Product Code(s)

Synonyms No information available

**Product Use** For Laboratory Research Use Only.

A3327

Supplier/Manufacturer

Biomatik Corporation 9-140 McGovern Dr.

Cambridge, Ontario N3H 4R7

Canada

Telephone Number 1-519-489-7195
E-mail Address info@biomatik.com

Emergency Telephone Number Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

## Label elements

## **Emergency Overview**

#### Warning

## Hazard statements

May cause respiratory irritation. May cause drowsiness or dizziness

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation



## Catalog No. A3327 Methylene Blue, Chloride, Trihyd

Appearance Iridescent Green-black Physical State Powder Odor No information available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label)

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/attention IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not regulated

**Other Information** 

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Methylene blue trihydrate	7220-79-3	-	95-100	Not applicable

## 4. FIRST AID MEASURES

### **First Aid Measures**

**Eye Contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

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 not breathing, give artificial respiration.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth.

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

Most Important Symptoms/Effects No information available.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

#### Specific Hazards Arising from the Chemical

No information available.

**Hazardous Combustion** 

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Hydrogen Chloride gas.

**Products** 

**Explosion Data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None. None.

#### **Protective Equipment and Precautions for Firefighters**

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

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal protection** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

#### Methods and material for containment and cleaning up

**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

#### **Precautions for Safe Handling**

Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Bases. Reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene blue trihydrate	<del>-</del>	-	-

## Appropriate engineering controls

## Catalog No. A3327 Methylene Blue, Chloride, Trihyd

Engineering Measures Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**Skin and 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

#### Information on basic physical and chemical properties

Physical State Powder

AppearanceIridescent Green-blackOdorNo information availableColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No information available

No information available

No information available

**pH** No information available

Melting point/freezing point

Boiling Point/Range No information available
Flash Point (High in °C) No information available
Evaporation Rate No information available
Flammability (solid, gas) No information available
Flammability Limit in Air

Upper flammability limit: Lower flammability limit: Vapor pressure

Vapor Density No information available **Specific Gravity** No information available **Water Solubility** No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

**Other Information** 

Softening PointNo information availableMolecular WeightNo information availableVOC ContentNo information availableDensityNo information availableBulk DensityNo information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

# Catalog No. A3327 Methylene Blue, Chloride, Trihyd

No data available

**Chemical Stability** 

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** 

None under normal processing.

**Conditions to Avoid** 

Extremes of temperature and direct sunlight.

**Incompatible Materials** 

Bases. Reducing agents.

**Hazardous Decomposition Products** 

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Hydrogen chloride gas.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause drownsiness and dizziness based on components. May cause irritation of

respiratory tract.

Eye Contact Irritating to eyes.

**Skin Contact** Irritating to skin.

**Ingestion** Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylene blue trihydrate	-	-	-

#### Information on toxicological effects

**Symptoms** No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

			3 7	3
Chemical Name	ACGIH	IARC	NTP	OSHA
Methylene blue trihydrate	-	Group 3	-	-

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Methylene blue trihydrate	-	-	-

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## Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Methylene blue trihydrate	-

## **Other Adverse Effects**

No information available

## 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methylene blue trihydrate	=	-	=	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Methylene blue trihydrate	-	-	-	-

Chemical Name	California Hazardous Waste Status
Methylene blue trihydrate	-

## 14. TRANSPORTINFORMATION

**DOT** Not regulated Not regulated

## 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Does not comply **DSL/NDSL** 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

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

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AICS - Australian Inventory of Chemical Substances

### 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 any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Methylene blue trihydrate	-

#### 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 regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methylene blue trihydrate	-	-	-	-

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methylene blue trihydrate	-	-	-

## **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Methylene blue trihydrate	<del>-</del>

## **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methylene blue trihydrate	-	-	-

## **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not regulated

## **16. OTHER INFORMATION**

#### **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

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material or in any process, unle	ess specified in th	ne text.			
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