

## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:	<b>Methylene Blue 0.01 meq</b>
OTHER MEANS OF IDENTIFICATION:	None
RECOMMENDED USE:	Laboratory reagent chemical
RESTRICTIONS ON USE:	None
SUPPLIER IDENTIFIER:	<b>Di-Corp</b> <b>8750-53 Ave</b> <b>Edmonton, AB T6E 5G2</b> <b>780-440-4923</b>
EMERGENCY PHONE NUMBER:	780-468-4064

## SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION:	Not classified according to Part 2 of HPR.
LABEL SYMBOLS:	Not applicable
SIGNAL WORD:	Not applicable
HAZARD STATEMENTS:	Not applicable
OTHER HAZARDS:	None known.
PRECAUTIONARY STATEMENTS:	Not applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Methylene Blue (methylammonium chloride)	61-73-4	0.1 – 1.0% (w/v)
Propylene Glycol (1,2 propanediol)	57-55-6	20% (v/v)

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing. Wash exposed area thoroughly with soap and water. If irritation occurs obtain medical attention.
EYE CONTACT:	Immediately flush eyes with gently flowing warm water for 15 minutes. Hold eyelids apart to ensure thorough flushing. If irritation persists, obtain medical attention.
INGESTION:	Do not induce vomiting unless directed to do so by medical personnel. Rinse mouth and give 2 to 4 glasses of water. If symptoms develop, obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties or distress continues, obtain medical attention.
MOST IMPORTANT SYMPTOMS / EFFECTS:	No known significant acute or chronic effects are expected as a result of contact with this product.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media suitable for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	None known.
SPECIFIC FIRE HAZARDS:	None known.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon and oxides of nitrogen.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel. Move from fire area if possible to do so without risk.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Prevent further leakage or spillage if safe to do so.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Small spills; soak up with absorbent material. Large spills, dike to contain spill to prevent water pollution. Waste material should be placed in containers approved for material being disposed.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Launder contaminated clothing before reuse. Avoid skin and eye contact. Wash thoroughly after handling.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry area away from incompatible materials. Keep containers tightly closed at all times.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

Product and ingredient limits have not been established.

ENGINEERING CONTROLS:

Not required for normal conditions of use. Use local exhaust ventilation, process enclosure or other engineering controls as required to maintain vapour/mist concentration below TLV's.

### PERSONAL PROTECTIVE MEASURES

RESPIRATORY PROTECTION:

Not required under normal conditions of use.

PROTECTIVE GLOVES:

Rubber gloves recommended.

EYE PROTECTION:

Safety glasses with side-shields or chemical goggles.

OTHER PROTECTIVE EQUIPMENT (SPECIFY):

Ensure eye-wash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Dark blue liquid
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable
pH:	7.1
MELTING POINT / FREEZING POINT:	<-15°C
BOILING POINT / RANGE:	>100°C
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not applicable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	1.0 – 1.1
SOLUBILITY:	Completely miscible in water
PARTION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY: Not reactive under normal conditions.  
 CHEMICAL STABILITY: Stable under normal conditions  
 POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur  
 CONDITIONS TO AVOID: Avoid contact with strong oxidizers, reducing agents, strong acids and water reactive materials.  
 INCOMPATIBLE MATERIALS: Not available.  
 HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

**SECTION 11: TOXICOLOGICAL INFORMATION**

PRODUCT TOXICITY: Not determined

COMPONENT TOXICITY

INGREDIENT	LD 50 (oral, rat)	LD50 (dermal)	LC50 (inhal, rat)
Methylene Blue	1180 mg/kg	Not available	Not available
Propylene Glycol	20 g/kg	20800 mg/kg (rabbit)	Not available

SKIN CONTACT: May cause irritation. Will stain exposed skin. Prolonged contact may cause dermatitis.  
 EYE CONTACT: May cause irritation. Contains a cationic dye and may cause staining.  
 INGESTION: No adverse effects expected from incidental ingestion.  
 INHALATION: Low hazard for usual industrial handling. Inhalation of mists or vapours may cause respiratory tract irritation, nausea, vomiting, diarrhea and central nervous system effects.  
 CARCINOGENICITY: The ingredients of this product are not listed as carcinogenic.  
 TERATOGENICITY: No information available.  
 REPRODUCTIVE TOXICITY: No information available.  
 MUTAGENICITY: No information available.  
 CHRONIC TOXICITY: No information available.  
 TARGET ORGAN EFFECTS: No information available.

**SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY: Product information not determined.

INGREDIENT	LC50	LC50	EC50
Methylene Blue	Not available	Not available	Not available
Propylene Glycol	46,500 mg/L/96hr (fathead minnow)	43,500 mg/L/48hr (water flea)	18,100 mg/L/14 days (algae)

PERSISTENCE AND DEGRADABILITY: Not available.  
 BIOACCUMULATIVE POTENTIAL: Not available.  
 MOBILITY IN SOIL: Not available.  
 OTHER ADVERSE EFFECTS: Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose/incinerate in accordance with federal, state and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Triple rinse empty containers and dispose in general trash.

## **SECTION 14: TRANSPORTATION INFORMATION**

TDG:	Not regulated
DOT:	Not regulated
IATA:	Not regulated
IMDG:	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not applicable

## **SECTION 15: REGULATORY INFORMATION**

DSL:	All ingredients are listed on the DSL.
WHMIS CLASS:	Not controlled
TSCA:	All ingredients are listed or exempt from listing.

## **SECTION 16: OTHER INFORMATION**

REVISION DATE:	January 11, 2018
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