Material Safety Data Sheet

Methylene Blue Solution 1 ml = 0.01 ME (AF Grade) (RXSOL-60-6231-030)

1. Product and Company Identifaction

Product Name	Methylene Blue Solution 1 ml = 0.01 ME (AF Grade)
Product Type	RXSOL-60-6231-030

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
1,2-Propanediol(Propylene Glycol)	CAS# 57-55-6	35%	V/V	
Methylene Blue*3H20	-CAS# 7220-79-3	1%	W/V	None Established
Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

3. Hazards Identification

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview:May Be Harmful if Swallowed. Can Cause Skin and Eye Irritation.

Inhalation::No Adverse Health Effects Expected from Inhalation.

Ingestion:Large Doses may Cause Stomach Upset.

Skin:Not Expected to be a Health Hazard. May Cause Slight Irritation.

Eye Contact:Splashes may Cause Irritation.

Chronic Exposure:No Information Found.

Aggravated by Exposure:No Information Found.

4. First Aid Measures

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

SKIN:	Wash exposed area with soap and water. If irritation persists, seek medical attention.
EYES:	Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally.Seek Medical Aid
INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION:	Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

5. Fire-fighting Measures

Fire Extinguisher Type:	Carbon Dioxide, dry chemical powder or appropriate foam
Fire / Explosion Hazards:	Material will burn in a fire.
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

6. Accidental Release Measures

Eliminate Ignition Sources. Absorb with vermiculite or other inert material. Place in container.

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g., Vermiculite, Dry Sand, Earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

7. Handling and Storage

Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

8. Exposure controls and personal protection

Respiratory Protection	None required
Ventilation	Local
OTHER	Mechanical
Protective Gloves	Gloves to prevent skin exposure as rubber or vinyl
EYE PROTECTION	Splash Goggles
Other Protective Equipment	Wear appropriate clothing to prevent skin exposure

9. Physical and chemical properties

BOILING POINT	information not available
VAPOR PRESSURE	information not available
MELTING POINT	information not available
VAPOR DENSITY	information not available
EVAPORATION RATE	information not available
Appearance /Odors	Clear blue liquid with mild odor
Flash Point	information not available
Specific Gravity	~1

Percent Volatile by Evaporation Standard	~64%
Auto Ignition Temp	Not applicable
Lower Flamm. Limit in Air	Not applicable
Upper Flamm. Limit in Air	Not applicable
Solubility in Water	Soluble

10. Stability and reactivity

STABILITY	Stable
CONDITIONS TO AVOID	Avoid contact with heat, sparks, flames or other sources of ignition
MATERIALS TO AVOID	Acids, Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of Carbon
HAZARDOUS POLYMERIZATION	will not occur
Conditions to Avoid	None known

11. Toxicological information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

12. Ecological information

No Information Found.

13. Disposal considerations

Dilute with water and flush to sewer if local ordinances allow, otherwise whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulation may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

DOT Classification: UN1789, Hydrochloric Acid Solution, 8,PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

15. Regulatory information

Chemical Inventory Status –
Part 1:Ingrdient
Methylene Blue (7220-79-3)

Propylene Glycol (57-55-6)
TSCA Yes Yes
EC Yes Yes
Japan YES Yes
Australia Yes Yes

Chemical Inventory Status –
Part 2:Ingredient
Methylene Blue (7220-79-3)
Propylene Glycol (57-55-6)
Korea Yes Yes
DSL Yes Yes
NDSL No No
Phil. Yes Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Methylene Blue (7220-79-3)
Propylene Glycol (57-55-6)
RQ NO No
TPQ NO NO
List NO No
Chemical Catg No No

Federal, State &
International Regulations –
Part 2:Ingredient
Methylene Blue (7220-79-3)
Propylene Glycol (57-55-6)
CERCLA NO No
261.33 No No
8(d) No No

Chemical Weapons Convention:No
TSCA 12 (b):No
CDTA:NO
SARA 311/312: Acute: Yes
Chronic: NO
Fire: No
Pressure: No
Reactivity: No

Australian Hazchem Code: None
Poison Schedule: None allocated

16. Other information

Effects of overexposure. Acute and chronic: Harmful by inhalation,ingestion, skin absorption. May cause eye and skin irritaition and central nervous system problems. May cause GI disturbances, nausea, headache and vomiting. Target organs: None. Persons with pre-existing disorders may be more susceptible.

Flammability

Health Reactivity

Revisions	NFPA
3/4/2009	0 Creation date LS
3/6/2013	0.2 Revise Label & MSDS to specify Methylene Blue*3H20 as the proper
7/29/2010	0.1 updated msds to 16 section from 10 section msds. STN

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