



Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name: 1% Methylene Blue Solution in Water

CAS: 7220-79-3, 122965-43-9, 7720-79-3

Synonyms: Basic blue 9
C.I. 52015
3,7-Bis(Dimethylamino)phenazathionium chloride

Chemical Formula: C₁₆H₁₈N₃ClS·3H₂O

Contact Information:

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1-800-535-5053

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For non-emergency assistance, call: 1-716-777-3776

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

The product is not classified according to the Globally Harmonized System (GHS)

2.2 GHS Label elements, including precautionary statements

This product does not have to be labeled due to the calculation procedure of international guidelines

Hazard statement(s)

Precautionary statement(s)

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified

Section 3: Composition, Information on Ingredients

3.1 Substances

Synonyms: Water, Basic blue 9
Formula : H₂O, C₁₆H₁₈N₃ClS·3H₂O
Molecular weight : 373.90 g/mol
CAS-No. : 7732-18-5, 7220-79-3
EC-No. : 200-664-3

Dangerous Components Name	Classification	% by Weight
Methylene blue		1%
Water		99%

Section 4: First Aid Measures

4.1 Description of first-aid measures

General advice No special measures are required.
If inhaled Supply fresh air. Get medical attention if symptoms occur.
In case of skin contact Generally, the product does not irritate the skin.
In case of eye contact After eye contact: rinse out with plenty of water. Remove contact lenses.
If swallowed Clean mouth with water and drink afterward plenty of water. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Firefighting Measures

5.1	Extinguishing media Suitable extinguishing media Water Foam Carbon dioxide (CO ₂) Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
5.2	Special hazards arising from the substance or mixture None.
5.3	Advice for firefighters None.
5.4	Further information None.

Section 6: Accidental Release Measures

6.1	Personal precautions, protective equipment and emergency procedures Not required.
6.2	Environmental precautions Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.
6.3	Methods and materials for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
6.4	Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment For disposal see section 13.

Section 7: Handling and Storage

7.1	Precautions for safe handling Advice on protection against fire and explosion No special measures required. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
7.2	Conditions for safe storage, including any incompatibilities Storage conditions No special requirements Storage class No special requirements.
7.3	Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

8.1	Control parameters This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
8.2	Exposure controls Appropriate engineering controls Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substances. Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles Skin protection Handle with impervious gloves. This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L Body Protection Flame retardant antistatic protective clothing. Respiratory protection Not required. Control of environmental exposure Do not let product enter drains.

Section 9: Physical and Chemical Properties

Physical State	Liquid
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Appearance	Blue liquid
Odor	Odorless
Odor Threshold	No information available
pH	3-4.5 (1% solution in water)
Melting Point/Range	0 °C / 32 °F
Boiling Point/Range	100 °C / 212 °F
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure at 20°C	23 kPa (17 mm Hg)
Vapor Density	Not applicable
Specific Gravity	1.0
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Molecular Formula for solid	C16H18CIN3S.3H2O
Molecular weight of solid	373.90

Section 10: Stability and Reactivity Data

Reactive Hazard	No
Stability	Stable.
Conditions to Avoid	No further information.
Incompatible Materials	No further information.
Hazardous Decomposition Products	No dangerous decomposition.
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

Section 11: Toxicological Information

11.1	Information on toxicological effects
	Acute toxicity
	Skin corrosion/irritation No irritating effect
	Serious eye damage/eye irritation No irritating effect
	Respiratory or skin sensitization No sensitization effect
	Germ cell mutagenicity No data available
	Carcinogenicity
	IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
	Reproductive toxicity No data available
	Specific target organ toxicity - single exposure No data available
	Specific target organ toxicity - repeated exposure No data available
	Aspiration hazard No data available
11.2	Additional Information
	The toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

12.1	Toxicity
	Do not empty into drains
12.2	Persistence and degradability
	No data available
12.3	Bioaccumulative potential
	No data available

12.4	Mobility in soil No data available
12.5	Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6	Endocrine disrupting properties No data available
12.7	Other adverse effects No data available

Section 13: Disposal Considerations

13.1	Waste treatment methods Product Smaller quantities can be disposed of with household waste. Disposal must be made according to local, regional, and national hazardous waste regulations. Water is recommended cleansing agent.
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Section 14: Transport Information

DOT (US)	Not a dangerous goods during transportation
IMDG	Not regulated
IATA	Not regulated

Section 15: Other Regulatory Information

US Federal Regulations Us Toxic Substances Control Act (TSCA): Active SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Hazards: No chemicals were found
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Section 16: Other Information

<p>References: Not available.</p> <p>Other Special Considerations: Not available.</p> <p>Created: 7/25/2022</p> <p>Last Updated: 7/25/2022</p> <p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall UFC Biotechnology be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if UFC Biotechnology has been advised of the possibility of such damages.</p>
