

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification		
Product Name: 1% Methylene Blue Solution in Water	Contact Information:	
CAS: 7220-79-3, 122965-43-9, 7720-79-3	UFC Biotechnology, Inc. 435 Creekside Drive, Suite 5 Amherst, New York 14228	
Synonyms: Basic blue 9 C.I. 52015 3,7-Bis(Dimethylamino)phenazathionium chloride	Office Number: 716-777-3776 INFOTRAC (24HR Emergency Telephone), call: 1-800-535-5053	
Chemical Formula: C ₁₆ H ₁₈ N ₃ ClS·3H ₂ O	International INFOTRAC, call: 1- 352-323-3500 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)	
.	Uppende not otherwise classified (UNIOC) or not servered by CUS	

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS None identified

Substances			
Synonyms:	Water, Basic	blue 9	
Formula :	$H_2O, C_{16}H_{18}N$	$V_3ClS \cdot 3H_2O$	
Molecular weight :	373.90 g/mol		
CAS-No. :	7732-18-5, 72	220-79-3	
EC-No. :	200-664-3		
Dangerous Compone	ents Name	Classification	% by Weight
Dangerous Compone Methylene blue	ents Name	Classification	% by Weight 1%

	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			
	wn symptoms and effects are described in the labeling (see section 2.2) and/or in section 11			
4.3				
No data available				



Extinguishing media

5.1

Section 5: Firefighting Measures

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

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: <u>www.kcl.de</u>). 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: Phy	vsical and Chemical Properties
Physical State	Liquid	



Blue liquid
Odorless
No information available
3-4.5 (1% solution in water)
0 °C / 32 °F
100 °C / 212 °F
Not applicable
No data available
Not applicable
No data available
No data available
23 kPa (17 mm Hg)
Not applicable
1.0
Soluble in water
No data available
No information available
C16H18CIN3S.3H2O
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.

Section 14: Transport Information

DOT (US)Not a dangerous goods during transportationIMDGNot regulatedIATANot 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

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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