



## **Material Safety Data Sheet**

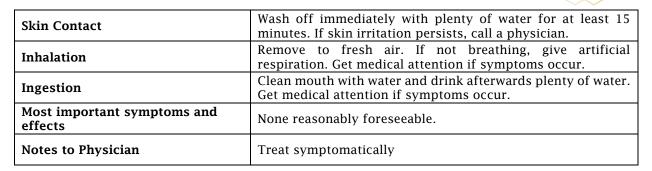
Section 1: Product and Company Identification			
Product Name	Methylene Blue		
Catalogue Number:	ASC-1008	CAS Number:	61-73-4
E-mail:	Sales@ausamics.com	Website:	Ausamics.com

Section 2: Hazards Identification			
<b>Classification:</b> This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)			
Acute oral toxicity		Category 4	
Label Elements			
Signal Word	Warning	<u>(i)</u>	
Hazard Statements	Harmful if swallowed		
Precautionary Statements Prevention	Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product		
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth		
Disposal	Dispose of contents/container to an approved waste disposal plant.		
Hazards not otherwise classified (HNOC)	None identified		

Section 3: Composition / Information on Ingredients		
Component	CAS No	Weight %
Methylene blue trihydrate	7220-79-3	>95
Methylene blue	61-73-4	-

Section 4: First Aid Measures	
General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.





Section 5: Firefighting Measures					
Suitable Extinguishing Media		Water spray, carbon dioxide (CO2), dry chemical, alcoholresistant foam.			
Unsuitable Extinguishir	ıg Media	No informa	No information available		
Flash Point		No information available			
Autoignition Temperate	ure	No informa	tion available		
Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge Specific Hazards Arising from the		No data available No data available No information available No information available Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from			
Hazardous Combustion Products		heat and sources of ignition.  Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen chloride gas.			
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.			
NFPA					
Health	Flammability		Instability	Physical hazards	
2	1		0	N/A	

Section 6: Accidental Release Measures		
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.	
<b>Environmental Precautions</b>	Should not be released into the environment.	
Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disp Keep in suitable, closed containers for disposal.		



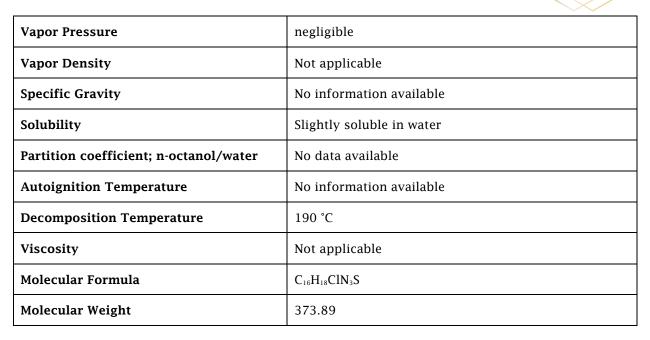


Section 7: Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.	
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.	

Section 8: Exposure Controls / Personal Protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure Limits established by the region-specific regulatory bodies.	
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	No protective equipment is needed under normal use conditions.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

Section 9: Physical and Chemical Properties		
Physical State	Solid	
Appearance	Dark green	
Odor	Odorless	
Odor Threshold	No information available	
рН	3 - 4.5	
Melting Point/Range	100 - 110 °C / 212 - 230 °F	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	Not applicable	
Flammability (solid, gas)	No information available	
Flammability or explosive limits Upper Lower	No data available No data available	

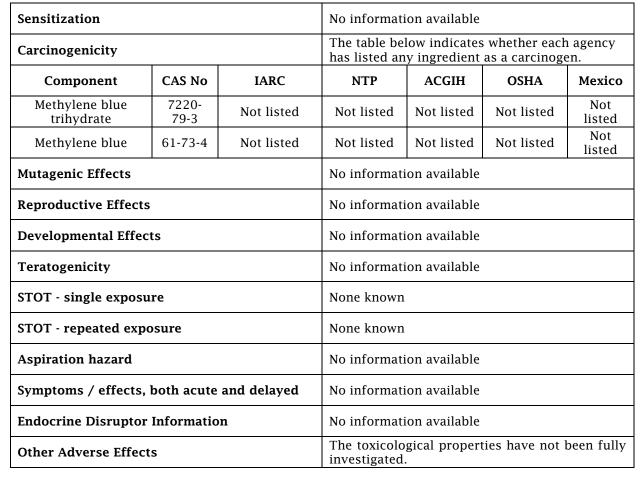




Section 10: stability and Reactivity		
Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products	Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

Section 11: Toxicological Information			
Acute Toxicity Product Information Component Information			
Component LD50 Oral		LD50 Dermal	LC50 Inhalation
Methylene blue	LD50 = 1180 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products		No information available	
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Irritation		Irritating to eyes, respiratory system and skin	





Section 12: Ecological Information		
Ecotoxicity	Do not empty into drains.	
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.	
Bioaccumulation/ Accumulation	No information available.	
Mobility	Will likely be mobile in the environment due to its water solubility.	

Section 13: Disposal Consideration					
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				





Section 14: Transport Information				
DOT	Not regulated			
TDG	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			

Section 15: Regulatory Information						
United States of America Inventory						
Component	CAS No	TSCA - EPA Regulatory Flags				
Methylene blue trihydrate	7220-79-3	-	-	-		
Methylene blue	61-73-4	X	ACTIVE	-		

## Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

- X Listed
- '-' Not Listed

TSCA 12(b) - Notices of Export	Not applicable
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## **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Methylene blue trihydrate	7220- 79-3	-	-	-	-	-		-	-	-
Methylene blue	61-73- 4	X	-	200-515-2	X	X		X	X	KE- 06942

## **U.S. Federal Regulations**

SARA 313	Not applicable		
SARA 311/312 Hazard Categories	See section 2 for more information		
CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable		





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CERCLA						Not applicable			
California Proposition 65					This product does not contain any Proposition 65 chemicals.				
U.S. State Right-to-Know Regulations									
Componen	ıt	Massachu	usetts New Jersey		Pennsylvania		Illinois	Rhode Island	
Methylene bl trihydrate		-		-		-		X	-
U.S. Departmen	nt of Tra	ansportati	ion						
Reportable Qua	ntity (R	Q)				N			
DOT Marine Pol	lutant					N			
DOT Severe Mai	ine Poll	utant				N			
U.S. Departmen	nt of Ho	meland S	ecurity			This product chemicals.	does	s not con	tain any DHS
Other Internati	onal Re	gulations							
Mexico - Grade						No information available			
Authorization ,	/Restric	tions acc	ording	to EU RI	EAC:	Н			
Component REACH (1907/2006) - Annex XIV - Substances Subject to Authorization				EACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances  REACH Regulation (EC 1907/2006) article 59 Candidate List of Substances of Very High Concern (SVHC)			06) article 59 - date List of nces of Very		
Methylene blue -				Use restricted. See item 75. (see link for restriction details)			-		
Safety, health, and environmental regulations/legislation specific for the substance or mixture									
Component	CAS No		OECL	) HPV		Persistent Organic Pollutant	Ozone Depletion Potential		Restriction of Hazardous Substances (RoHS)
Methylene blue trihydrate	722	0-79-3		Not pplicable N		ot applicable	Not applicable		Not applicable
Methylene blue	61	1-73-4 Not applicable			No	ot applicable Not a		applicable	Not applicable
Component	nt CAS No		Dire (2012 Qua	eso III ective /18/EC) - lifying ntities	(2	Seveso III Directive 2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)		Basel Convention (Hazardous Waste)





Section 16: Additional Notes					
Documented By  Ausamics Life Science Sales@Ausamics.com					
Revision date	June 03, 2023				
Summary of Revisions	This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS).				
Disclaimer	The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text.				