

SAFETY DATA SHEET

Revision Date 24-Feb-2020

Revision Number 2

1. Identification						
Product Name	Methylene Blue, 1% w/v aq. soln.					
Cat No. :	42771					
Synonyms	No information available					
Recommended Use Uses advised against Details of the supplier of the safety	Laboratory chemicals. Food, drug, pesticide or biocidal product use. data sheet					
Company Alfa Aesar Fhermo Fisher Scientific Chemicals, Ir 30 Bond Street Ward Hill, MA 01835-8099 Fel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com	IC.					

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

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Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Water	7732-18-5	99.00

Methylene Blue hydrat	e	122965-43-9	1.00				
	4.	First-aid measures					
Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. medical attention.							
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.						
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and	None reason	ably foreseeable.					
effects Notes to Physician	Treat sympto	matically					

5. Fire-fighting measures

Suitable Extinguishing Media	Not combustible.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available No information available No information available

Specific Hazards Arising from the Chemical

None reasonably foreseeable.

Hazardous Combustion Products

Nitrogen oxides (NOx). Sulfur oxides. Hydrogen chloride. **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 0	Flammability 0	Instability 0	Physical hazards -
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions		n. Use personal protective equipt the environment. See Section	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

7. Handling and storage

Handling	/ear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ontact with skin, eyes or clothing. Avoid ingestion and inhalation.				
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.				
8. E Exposure Guidelines	xposure controls / personal protection This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.				
Engineering Measures	None under normal use conditions.				
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.				

9. Physical and chemical properties

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Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C16 H18 CI N3 S
Molecular Weight	319.86

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.

Incompatible Materia	lls	Strong oxidizing ag	Strong oxidizing agents					
Hazardous Decompo	Hazardous Decomposition Products Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride							
Hazardous Polymeriz	zation	Hazardous polyme	rization	does not o	occur.			
Hazardous Reactions	5	None under normal processing.						
11. Toxicological information								
Acute Toxicity								
Product Information Oral LD50 Dermal LD50 Vapor LC50 <u>Component Informat</u>		Based on ATE data Based on ATE data Based on ATE data	a, the cla	assificatior assificatior	n criteria are not me n criteria are not me	et. ATE > 2000 mg et. ATE > 20 mg/l.	J/kg.	
Component Water		LD50 Oral			LD50 Dermal	LC50	Inhalation	
Toxicologically Syne	rgistic	No information ava	ilable					
Products Delayed and immedia	ate effects a	s well as chronic effe	cts from	n short an	d long-term expos	sure_		
Irritation		No information ava	ilable					
Sensitization		No information ava	ilable					
Carcinogenicity		The table below inc	dicates v	whether ea	ach agency has liste	ed any ingredient a	as a carcinogen.	
Component	CAS-No	IARC		ITP	ACGIH	OSHA	Mexico	
Water Methylene Blue	7732-18-5 122965-43-9			listed listed	Not listed Not listed	Not listed Not listed	Not listed Not listed	
hydrate Mutagenic Effects	No information ava	ilable						
Reproductive Effects	No information ava	No information available.						
Developmental Effec	ts	No information ava	ilable.					
Teratogenicity		No information ava	ilable.					
STOT - single exposit STOT - repeated expo		None known None known						
Aspiration hazard		No information ava	ilable					
Symptoms / effects, delayed	both acute a	nd No information ava	ilable					
Endocrine Disruptor	Information	No information ava	ilable					
Other Adverse Effect	s	The toxicological p	roperties	s have not	been fully investiga	ated.		
		12. Ecolo	ogica	l infor	mation			
Ecotoxicity Do not empty into drai	ns.							
Persistence and Deg	radability	Miscible with water	Persist	ence is un	likely based on info	rmation available.		

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.						
	13. Disposal considerations					
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is class hazardous waste. Chemical waste generators must also consult local, regional, anational hazardous waste regulations to ensure complete and accurate classification.						
	14. Transport information					
DOT TDG	Not regulated					
<u>_TDG</u>	Not regulated					
IATA_	Not regulated					
IMDG/IMO	Not regulated					
	15. Regulatory information					

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Water	7732-18-5	Х	ACTIVE	-
Methylene Blue hydrate	122965-43-9	-	-	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Water	7732-18-5	Х	-	231-791-2	Х	Х	Х	Х	KE-35400
Methylene Blue hydrate	122965-43-9	-	-	-	Х	-	-	-	-

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
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	24-Feb-2020 24-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 327.

Disclaimer

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End of SDS