

Methylene Blue, 1% Aqueous Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/31/2013 Revision date: 01/09/2018

Supersedes: 01/28/2015

Version: 1.1

SECTION 1: Identification					
1.1. Identification					
Product form	: Mixtures				
Product name	: Methylene Blue, 19	% Aqueous			
Product code	: LC16940	, iquoodo			
Other means of identification	: Basic Blue 9, 1% w	/\/			
	,	, v			
1.2. Recommended use and restriction Use of the substance/mixture		monufacturing upo on	.		
	-	manufacturing use on	у.		
Recommended use Restrictions on use	: Laboratory chemica				
	: Not for food, drug o	or nousenoid use			
1.3. Supplier					
LabChem Inc Jackson's Pointe Commerce Park Building 10	000 1010 lookoon'a Point	o Court			
Zelienople, PA 16063 - USA		BOOUIT			
T 412-826-5230 - F 724-473-0647					
info@labchem.com - www.labchem.com					
1.4. Emergency telephone number					
Emergency number	: CHEMTREC: 1-800	0-424-9300 or 011-703	3-527-3887		
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance of	or mixture				
GHS-US classification					
Not classified					
2.2 CHC Label elements including a	ve equile news statements				
2.2. GHS Label elements, including p	precautionary statements	i			
Not classified as a hazardous chemical.					
Not classified as a hazardous chemical. Other hazards not contributing to the	precautionary statements : None.	i			
Not classified as a hazardous chemical. Other hazards not contributing to the classification	: None.	i			
Not classified as a hazardous chemical. Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS US	: None.				
Not classified as a hazardous chemical. Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS US Not applicable	: None.				
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Symptoms/effects after skin contact	: May stain the skin.
4.3. Immediate medical attention and spec	cial treatment, if necessary
None.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	ng media
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the che	mical
Fire hazard	: Not flammable.
Explosion hazard	Not applicable.
Reactivity	: None.
5.3. Special protective equipment and pre	cautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	ires
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
	Evacuate unnecessary personnel.
6.1.2. For emergency responders	. Equip cleanup arous with proper protection
Protective equipment Emergency procedures	Equip cleanup crew with proper protection. Ventilate area.
3 71	. Veninale area.
6.2. Environmental precautions	sutherities if liquid enters sources as public waters
Prevent entry to sewers and public waters. Notify a	
6.3. Methods and material for containmen	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal p	rotection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2. Conditions for safe storage, including	any incompatibilities
0	: Keep container closed when not in use.
	Strong bases. Strong acids. Sodium hypochlorite.
Incompatible materials	: Sources of ignition. Direct sunlight.
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
Methylene Blue (61-73-4)	
Not applicable	
Water (7732-18-5) Not applicable	
8.2. Appropriate engineering controls	
Appropriate engineering controls	Emergency eye wash fountains should be available in the immediate vicinity of any potential

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses.



Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Respiratory protection not required in normal conditions

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	
Physical state	: Liquid
Color	: Blue
Odor	: characteristic
Odor threshold	: No data available
рН	: No data available
pH solution	: 3 - 4.5
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 190 °C
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: None.
9.2. Other information	

No additional information available

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SECTION 10: Stability and reactivity			
10.1. Reactivity			
None.			
10.2. Chemical stability			
Not established.			
10.3. Possibility of hazardous reactions			
Not established.			
10.4. Conditions to avoid			
	~		
Direct sunlight. Extremely high or low temperature			
10.5. Incompatible materials			
Strong acids. Strong bases.			
10.6. Hazardous decomposition products			
Nitrogen oxides. Carbon monoxide. Carbon dioxid	de. Sulfur compounds.		
SECTION 11: Toxicological informati	on		
11.1. Information on toxicological effects			
Likely routes of exposure	: Skin and eye contact		
Acute toxicity	: Not classified		
Methylene Blue (61-73-4)			
LD50 oral rat	1180 mg/kg (Rat)		
ATE US (oral)	1180 mg/kg body weight		
Water (7732-18-5)			
LD50 oral rat	≥ 90000 mg/kg		
ATE US (oral)	90000 mg/kg body weight		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
	Based on available data, the classification criteria are not met		
Carcinogenicity	: Not classified		
Depreductive toxicity	· Net algorithm		
Reproductive toxicity	: Not classified		
Chapitia tavant avaan tavisitu asiasia avaa	Based on available data, the classification criteria are not met		
Specific target organ toxicity – single exposure	: Not classified		
Specific target organ toxicity - repeated	: Not classified		
exposure			
	A had a los a 20 a al		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.		
symptoms			
Symptoms/effects after skin contact	: May stain the skin.		
SECTION 12: Ecological information			
12.1. Toxicity			
Methylene Blue (61-73-4)			
ECEO Dephyle 1	0.00 mm m/I/(E O F 0) A 0 b)		

EC50 Daphnia 1 2.26 mg/l (EC50; 48 h) LC50 fish 2 18 mg/l (LC50; 96 h)	Methylene Blue (61-73-4)	
LC50 fish 2 18 mg/l (LC50; 96 h)	EC50 Daphnia 1	2.26 mg/l (EC50; 48 h)
	LC50 fish 2	18 mg/l (LC50; 96 h)

12.2.	Persistence and degradability	
Methyl	ene Blue, 1% Aqueous	
Persist	ence and degradability	Not established.

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Methylene Blue (61-73-4)	
Persistence and degradability	Biodegradability in water: no data available. Photodegradation in the air.
Water (7732-18-5)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Methylene Blue, 1% Aqueous	
Bioaccumulative potential	Not established.
Methylene Blue (61-73-4)	
Log Pow	5.85 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	

No additional information available

12.5. Other adverse effects	
Effect on the global warming GWPmix comment	No known effects from this product.No known effects from this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	IS
13.1. Disposal methods	

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Methylene Blue (61-73-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Methylene Blue (61-

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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SECTION 16: Other information	
Revision date	: 01/09/2018
Other information	: None.
Full text of H-phrases: see section 16:	
H302	Harmful if swallowed
H401	Toxic to aquatic life
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B
	B - Safety glasses, Gloves

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