astraldiagnostics Methylene Blue 1%

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 11 NOV 2022

		JI Uale. II N			
SECTIO	N 1: Identification				
	dentification				
Product for	rm	: Mixtu	Ire		
Product na			ylene Blue 1%		
Product co	de		-04, 6550-16, 6550-G		
1.2.	Pasammandad use and restrictio				
	Recommended use and restrictio substance/mixture		aboratory and manufacturing use	oply	
Recomme			aboratory and manufacturing use ratory chemicals	only.	
Restriction			or food, drug or household use		
		. Noti			
1.3. Stral Diag	Supplier				
Logan Tow T +1 856 2 800-441-03	/nship NJ 08085 - United States	day: 8:00AN	<i>I</i> -5:00 PM, Eastern US Time		
1.4. I	Emergency telephone number				
Emergenc	y number	: 800-	424-9300 CHEMTREC (USA) 2	4 Hours/Day, 7	7 Days/Week
Not classifi Other haza classificatio 2.4. L Not applica	Jnknown acute toxicity (GHS US)	: None			
Not applica					
	Mixtures				
Name			Product identifier	%	GHS-US classification
Water			(CAS-No.) 7732-18-5	7 0 99	Not classified
Methylene	Blue		(CAS-No.) 61-73-4	1	Acute Tox. 4 (Oral), H302 Aquatic Acute 2, H401
	hazard classes and H-statements :	see section	n 16	1	
	N 4: First-aid measures Description of first aid measures				
	easures general				son. If you feel unwell, seek medical
First aid	occurse ofter inhelation		ce (show the label where possible)		set
rirst-aid m	easures after inhalation	: Allov	v victim to breathe fresh air. Allow	the victim to re	est.

	advice (show the label where possible).	
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.	
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, fo by warm water rinse.	llowed
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or red persists.	ness
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effect	cts (acute and delayed)	
Symptoms/effects Symptoms/effects after skin contact	Not expected to present a significant hazard under anticipated conditions of normal usMay stain the skin.	e.
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4.3. Immediate medical attention and special treatment, if necessary

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishin	a modia	
	Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
0 0	Do not use a heavy water stream.	
	·	
5.2. Specific hazards arising from the cher		
	Not flammable.	
•	Not applicable.	
Reactivity :	None.	
5.3. Special protective equipment and pred	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 measu	ires	
6.1. Personal precautions, protective equi	oment and emergency procedures	
6.1.1. For non-emergency personnel		
5 71	Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment :	Equip cleanup crew with proper protection.	
Emergency procedures :	Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.	
6.3. Methods and material for containment		
	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 section 8. Exposure controls and personal pro	tection.	
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	
, and the second s	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	
	Keep container closed when not in use.	
Incompatible products :	Strong bases. Strong acids. Sodium hypochlorite.	
Incompatible materials :	Sources of ignition. Direct sunlight.	
SECTION 8: Exposure controls/persor	nal protection	
8.1. Control parameters		
Methylene Blue (61-73-4)		
Not applicable		
Water (7732-18-5)		
Not applicable		
L		
8.2. Appropriate engineering controls		
	Emergency eye wash fountains should be available in the immediate vicinity of any potential	
	exposure.	

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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 splash 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 chemical 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 ℃		
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	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	es.			
10.5. Incompatible materials				
Strong acids. Strong bases.				
10.6. Hazardous decomposition products				
Nitrogen oxides. Carbon monoxide. Carbon dioxi	de. Sulfur compounds.			
SECTION 11: Toxicological informati				
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			
Consistentiaite	Based on available data, the classification criteria are not met			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
	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				
Aspiration hazard	: Not classified			
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.			
Symptoms/effects after skin contact	: May stain the skin.			
SECTION 12: Ecological information				
SECTION 12: Ecological information				
12.1. Toxicity				

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

12.2.	Persistence and degradability		
Methy	Methylene Blue 1%		
Persist	Persistence 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%	
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	: No known effects from this product.	
GWPmix comment	: No known effects from this product.	
Other information	: Avoid release to the environment.	
SECTION 13: Disposal considerations		
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

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed and active 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 (61-73-4)

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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SE	SECTION 16: Other information		
Initia	al date	: 11 DEC 2013	
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Full	Full text of H-phrases:		
	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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