Safety Data Sheet

Toluidine Blue O Solution



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Toluidine Blue O Solution Science education applications N/A Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Section 2

Other Safety Precautions:

May cause eye irritation. May cause gastrointestinal discomfort.

Composition / Information on Ingredients

Chemical Name	CAS #	<u>%</u>	
Water	7732-18-5	99.5	
Toluidine Blue	92-31-9	0.5	

Section 4

Section 3

First Aid Measures

Emergency and First Aid Procedures

Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	After contact with skin, wash immediately with plenty of water.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Section 6

Firefighting Procedures

Extinguishing Media:	Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	N/A
Hazardous Combustion Products:	Sulfur Oxides, Carbon oxides, Nitrogen oxides, Hydrogen chloride

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Ventilate the contaminated area. Remove soiled clothing and launder before reuse. Contain the discharged material. Do not flush spill to drain.

Section 7

Handling and Storage

Storage: A Storage Code: G

Keep container tightly closed in a cool, well-ventilated place. Green - general chemical storage

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Section 8	Protection	Information		
	ACGIH		OSHA PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	(TWA)	<u>(STEL)</u>
No data available	N/A	N/A	N/A	N/A
Control Parameters				
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.			
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.			
Respiratory Protection:	No respiratory protection required under normal conditions of use.			
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.			
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.			
Gloves:	Natural rubber, Neoprene, PVC or equivalent.			
Section 9	Physic	al Data		

Formula: C15H16CIN3S + H2O Molecular Weight: 305.82 g/mol Appearance: Colorless Liquid Odor: None Odor Threshold: No data available **pH:** No data available Melting Point: No data available 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: N/A N/A

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: N/A Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: **Incompatible Materials:** Hazardous Decomposition Products: Hazardous Polymerization:

No data available Stable under normal conditions. None known. Water-reactive materials, Strong oxidizing agents Hydrogen chloride, Nitrogen oxides, Carbon oxides, Sulfur Oxides Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): **Delayed Effects:**

Eve, Inhalation, ingestion N/A No data available

Acute Toxicity: **Chemical Name** Water

CAS Number

CAS Number

Oral LD50 Oral LD50 Rat 90000 mg/kg

Dermal LD50

NTP

Inhalation LC50

Carcinogenicity: Chemical Name No data available

IARC Not listed

Not listed

OSHA Not listed

Chronic Effects: Mutagenicity: Teratogenicity:

No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect).

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Sensitization: Reproductive: Target Organ Effects: Acute: Chronic: No evidence of a sensitization effect. No evidence of negative reproductive effects.

See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.

CAS Number

Section 12

Ecological Data

Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects: This material is not expected to be harmful to the ecology. No data No data No data No data No data

Chemical Name Water

Section 13

No data available

Disposal Information

Eco Toxicity

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Section 14

Section 15

Transport Information

Ground - DOT Proper Shipping Name: N/A

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Regulatory Information

TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available		No	No	No	No	No

Section 16

Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health