## Safety Data Sheet

## **Toluidine Blue**, 1%

# CAROLINA®

## **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Toluidine Blue, 1% 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;

No known OSHA hazards.

**GHS Classification:** 

Section 2

**Other Safety Precautions:** 

Not a dangerous substance according to GHS classification criteria.

Section 3	<b>Composition / Information on Ingredients</b>			
Chemical Name		CAS #	<u>%</u>	
Water		7732-18-5	99	
Toluidine Blue		92-31-9	1	

#### Section 4

## 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.
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## **Section 5**

## **Firefighting Procedures**

Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.
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:	Carbon dioxide, Carbon monoxide

## **Section 6**

## **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 Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## **Section 7**

## Handling and Storage

Handling: Storage: Keep container tightly closed in a cool, well-ventilated place. Suitable for any general chemical storage.

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#### Storage Code: Green - general chemical storage

Section 8	Protection	Information		
	ACO	<u>GIH</u>	OSH	IA PEL
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Toluidine Blue	N/A	N/A	N/A	N/A
Control Parameters				
Engineering Measures:	•	st for the constituents on naintain operator comfo		
Personal Protective Equipment (PPE):	Lab coat, apron, eye w	vash, safety shower.		
Respiratory Protection:	No respiratory protecti	on required under norn	nal conditions of use.	
Eye Protection:	Wear chemical splash available.	goggles when handling	g this product. Have a	n eye wash station
Skin Protection:	equipment depending and replace at regular	wearing chemically resi upon conditions of use intervals. Clean protec vith mild soap and wate	. Inspect gloves for ch tive equipment regula	emical break-through rly. Wash hands and
Gloves:	No information availab	le		
Section 9	Physic	al Data		

Vapor Pressure: N/A

Formula: See Section 3 Molecular Weight: N/A Appearance: Blue to Black Liquid Odor: None Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: N/A

## Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Polymerization: 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

Evaporation Rate (BuAc=1): N/A

## **Reactivity Data**

No data available Stable under normal conditions. None known. Water-reactive materials, Strong oxidizing agents Will not occur

## Section 11

## **Toxicity Data**

Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestio None Known No data available	n, eye or skin contact.			
Acute Toxicity: Chemical Name Water		<b>CAS Number</b> 7732-18-5	<b>Oral LD50</b> Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
Toluidine Blue		92-31-9	0.0		
Carcinogenicity: Chemical Name Toluidine Blue		<b>CAS Number</b> 92-31-9	IARC Not listed	NTP Not listed	OSHA Not listed

#### Chronic Effects:

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**Mutagenicity:** Teratogenicity: Sensitization: **Reproductive:** Target Organ Effects: Acute: **Chronic:** 

No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects.

7732-18-5

92-31-9

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

## Section 12

**Overview:** 

Persistence:

**Degradability:** 

**Bioaccumulation:** 

Other Adverse Effects:

Mobility:

This material is not expected to be harmful to the ecology. No data No data No data No data No data **CAS Number** 

**Chemical Name** Water **Toluidine Blue** 

Section 13

### **Disposal Information**

**Eco Toxicity** 

No data available

Ecological Data

**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

## Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by DOT.

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15		Regula	tory Info	rmation			
TSCA Status:	All com	ponents in this proc	duct are on the	TSCA Inventory.			
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ	
Toluidine Blue	92-31-9	No	No	No	No	No	

Section	16 Addi	Additional Information		
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available to u	on provided in this (Material) Safety Data Sheet repr s. Carolina Biological Supply makes no representation the substance covered in the (Material) Safety Data	on or guarantee	ilation of data drawn directly from various sources e as to the suitability of this information to a particular	
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		SARA	Superfund Amendments and Reauthorization A	
DOT IARC	U.S. Department of Transportation	SARA TLV	Superfund Amendments and Reauthorization A Threshold Limit Value	
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