

# SAFETY DATA SHEET

## TOLUIDINE BLUE, 0.1% AQUEOUS

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Toluidine Blue, 0.1% AQ

**Catalog Numbers:** SO-461

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

## GHS Classifications

### HEALTH HAZARDS

H315-Skin Corrosion/Skin Irritation: 2

H320-Eye damage/Irritation: 2B

### PHYSICAL HAZARDS

H225-Flammability: 2

### ENVIRONMENTAL HAZARDS

**Aquatic acute environmental Hazards:** Not classified

**Chronic environmental Hazards:** Not classified

### Pictograms or Hazard symbols and Hazard statement.



Warning: Causes skin irritation.  
Causes eye irritation.  
Harmful if swallowed.



Warning: May be corrosive to metals.



Danger: Highly flammable liquid and vapor.

#### H302

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink, or smoke when using this product.

**P301 + P312** If swallowed, call a physician if you feel unwell.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**P330** Rinse mouth.

#### H315

**P264**-Wash thoroughly after handling.

**P280**-Wear protective gloves.

**P302+P352**-IF ON SKIN: Wash with plenty of soap and water.

**P332+P313**-If skin irritation occurs: Get medical advice/attention.

**P362**-Take off contaminated clothing and wash before reuse

#### H320

**P305+P351+P338**-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313**-If eye irritation persists: Get medical advice/attention.

#### H225

**P210** Keep away from heat, flames, and hot surfaces. No smoking.

**P233** Keep container tightly closed.

**P241** Use explosive-proof equipment.

**P242** Use only non-sparking tools.

**P243** Take precautionary measures against static discharge.

**P280** Wear protective gloves, clothing, and eye and face protection.

**P303 + P361 + P353** If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

**P370 + P378** In case of fire use ..... to extinguish.

**P403 + P235** Store in a well-ventilated place. Keep cool.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
92-31-9	Toluidine Blue O	0.1 w/v
7732-18-5	Water	100 v/v

Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**

Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at Room temperature. Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Personal Protective Equipment

**Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Blue

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** N/A

**Freezing/Melting Point:** N/A

**Decomposition Temperature:** N/A

**Solubility:** Soluble.

**Specific Gravity/Density:** N/A

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

**Conditions to Avoid:** Heat, freezing.

**Incompatibilities with Other Materials:** Chromic Acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides, and phosphates.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes.

**Hazardous Polymerization:** Will not occur.

Section 11 - Toxicological Information

**RTECS#:**

**LD50/LC50:**

CAS# 92-31-9:

Not Available

**Carcinogenicity:**

CAS# 92-31-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

**Ecotoxicity:**

**CAS#** 92-31-9 Not Available

**Environmental:** When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

**Physical:** No information available.

**Other:** No information available.

Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

**DOT**

Non-Regulated

## Section 15 - Regulatory Information

### Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

#### Risk Phrases:

R22 Harmful by inhalation, in contact with skin and if swallowed  
R36/38 Irritating to eyes and skin

#### Safety Phrases:

S20/21 When using do not eat, drink or smoke  
S2 Keep out of the reach of children.  
S 7 Keep container tightly closed.  
S 9 Keep container in a well-ventilated place

## Section 16 - Additional Information

**MSDS Creation Date:** 10/15/12

**Revision #1. 8/27/14 YM**

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