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### Section I - Product Identification

*Product:* An aqueous solution of Toluidine Blue O.

*Intended Uses:* An in-vitro diagnostic stain Intended to be used in bacteriology and histology. Also used as a general laboratory reagent.

*Uses advised against:* For laboratory use only.

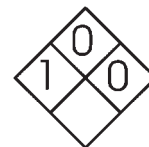
#### Manufacturer Identification

Medical Chemical Corp.  
19430 Van Ness Ave.  
Torrance, CA 90501

Customer Service: Phone (310)787-6800  
Email. Christinaavena@med-chem.com  
FAX (310)787-4464

#### Emergency Telephone Number

CHEMTREC Emergency Response Telephone Number: (800)424-9300. Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.



### Section II - Hazard Identification

This item is not considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Acute toxicity (Oral):** Category 5 (H303). May be harmful if swallowed.

**Acute toxicity (Dermal):** Category 5 (H313). May be harmful in contact with skin.

**Eye damage/eye irritation:** Category 2B (H320). May cause eye irritation.

The manufacturer is unaware of any chemical hazard associated with this product. The product may cause skin or eye irritation and may be harmful if swallowed.

#### Precautionary Statements

P102 Keep out of reach of children.  
P103 Read label before use.  
P270 Do not eat, drink or smoke when using this product.

#### Safety Ratings

*Health:* Slightly hazardous *Flammability:* None *Reactivity:* Stable *Contact:* Slight  
*Recommended safety equipment:* Not normally required.  
*Storage:* General storage

#### NFPA Ratings

Health = 1 Flammability = 0 Reactivity = 0

#### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other xanthene dyes.

*Inhalation:* May be Irritating to respiratory tract.

*Ingestion:* While the toxicity of this compound is low, large doses will cause nausea, vomiting, diarrhea, etc

*Skin contact:* May cause skin damage. May cause skin irritation or aggravation of existing dermatitis.

*Eye contact:* A serious eye irritant.

*Chronic Exposure:* Unknown.

*Aggravation of preexisting conditions:* Unknown.

### Section III - Composition/Information on Components

Ingredient	CAS #	EC List Number	%
Toluidine Blue O	92-31-9	202-146-2	1% w/w

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**Section IV - First Aid Measures**

*Inhalation:* Unlikely to be an issue. Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* Do not induce vomiting. Contact a poison control center immediately

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice.

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**Section V - Fire Fighting Measures**

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Fire:* Not normally a fire hazard.

*Explosion:* Not normally an explosion hazard.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Not applicable.

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**Section VI - Accidental Release Measures**

Absorb with a suitable absorbent such as paper towels and store in a suitable container for disposal.

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**Section VII - Handling and Storage**

Store in a closed opaque container at controlled room temperature, 59 °F to 86 °F (15 °C to 30 °C).

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**Section VIII - Exposure Control/Personal Protection**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Toluidine Blue O	Not regulated	Not regulated	Not regulated

**Legend**

**ACGIH:** American Conference of Governmental Industrial Hygienists.

**OSHA:** Occupational Safety and Health Administration.

**NIOSH:** National Institute for Occupational Safety and Health.

**IDLH:** Immediately dangerous to life or health.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are not required but may be used as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practices

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**Section IX - Physical and Chemical Properties**

*Boiling Point:* 100 °C

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear, .blue solution.

*Density:* About 1.00 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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**Section X - Stability and Reactivity**

*Stability:* Stable under normal conditions.

*Hazardous Decomposition Products:* No known hazardous decomposition products.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual

*Conditions to avoid:* Nothing unusual.

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**Section XI - Toxicological Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Toluidine Blue O	No data	No data	No data

The product is non-toxic.

#### Cancer lists

<i>Ingredient</i>	<i>Known Carcinogenicity?</i>	<i>NTP?</i>	<i>Anticipated?</i>	<i>IARC Category</i>
Toluidine Blue O	No	No	No	No

#### Section XII - Ecological Information

This product is not expected to bioaccumulate. The product biodegrades quickly and does not contain endocrine disrupters, persistent organic pollutants or ozone depleters.

**Soil Mobility:** Unknown

**Environmental Fate:** Biodegradable

**Environmental Toxicity:** The product has low environmental toxicity.

Component	Freshwater Fish	Water Flea	Freshwater algae
Toluidine Blue O	No data	No data	No data

#### Section XIII - Disposal Considerations

Not normally restricted but ultimate authority resides with local government agencies. Insure compliance with all government regulations

#### Section XIV - Transportation Information

Not regulated by DOT or IATA.

#### Section XV - Regulatory Information

##### Chemical Inventory Status

<i>Ingredient</i>	<i>TSCA</i>	<i>EC</i>
Toluidine Blue O	Yes	Yes

##### Federal and State Regulations

<i>Ingredient</i>	<i>SARA 302</i>		<i>SARA 313</i>		<i>RCRA</i>	<i>TSCA</i>	<i>Ca. Prop 65</i>
	<i>RQ</i>	<i>TPQ</i>	<i>List</i>	<i>Category</i>	<i>261.33</i>	<i>8(D)</i>	
Toluidine Blue O	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: *Acute:* No, *Chronic:* No, *Fire:* No, *Pressure:* No

#### Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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