



MATERIAL SAFETY DATA SHEET

Issuing Date 6/6/2013

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name TOLUIDINE BLUE O INDICATOR

Product Code(s) 3995

Synonyms none

Recommended Use Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.

Company LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA

Emergency telephone number 24 Hour Emergency Number (CHEM-TEL):
USA, Canada, Puerto Rico 1-800-255-3924
Outside North American Continent (Call collect) 813-248-0585

2. Hazards Identification

EMERGENCY OVERVIEW

May stain skin

May cause skin and eye irritation

appearance clear, blue

Physical state liquid

Odor None

OSHA Regulatory Status Safety information is given for exposure to the reagent as sold and considers exposure to the chemical if user has direct eye and skin contact.

Potential health effects

Principle Routes of Exposure

Skin Contact, Ingestion.

Acute toxicity

EYES

May cause irritation.

skin

May cause irritation.

inhalation

Not an expected route of exposure.

Ingestion

May cause gastrointestinal discomfort if consumed in large amounts.

Chronic effects

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %
Toluidine Blue O	92-31-9	0.5
Water	7732-18-5	to 100%

4. First aid measures

General advice	Do not get in eyes, on skin, or on clothing.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. If irritation persists or develops, contact a physician.
Skin contact	Wash skin with soap and water. If irritation develops or persists, consult physician.
inhalation	Not an expected route of exposure. Move to fresh air.
Ingestion	Drink large quantity of water. If symptoms persist or develop contact physician.
Protection of First-aiders	Use personal protective equipment. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. Fire-fighting measures

Flammable properties	Not a fire hazard.
flash point	Not Applicable
Suitable extinguishing media	Water spray, dry chemical, carbon dioxide (CO ₂), or foam.

NFPA	Health hazard 0	flammability 0	stability 0	Physical and Chemical Hazards -
HMIS	Health hazard 0	flammability 0	stability 0	

6. Accidental release measures

Personal precautions	Refer to Section 8.
Methods for containment	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.
Methods for cleaning up	If local regulations permit, rinse to drain with excess water. After cleaning, flush away traces with water.

7. Handling and Storage

Handling	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Toluidine Blue O 92-31-9	None known	None known	None known
Water 7732-18-5	None known	None known	None known

Engineering Measures None under normal use conditions.

Personal protective equipment
Eye/face Protection Safety glasses with side-shields.

Skin and body protection
Respiratory protectionRepeated or prolonged contact: Wear protective gloves/clothing.
None required under normal usage.**Hygiene Measures**

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

appearance	clear blue	Odor	None
Physical state	liquid	pH	4
flash point	Not Applicable	Autoignition temperature	Not Applicable
Boiling Point/Range	~ 100°C/212°F		

vapor pressure	Essentially the same as water	vapor density	Essentially the same as water
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10. Stability and Reactivity

stability Stable under normal conditions of use and storage.**Incompatible Products** None known.**Conditions to avoid** Temperature extremes.**Hazardous decomposition products** None under normal use.**Hazardous polymerization** Hazardous polymerization does not occur.

11. Toxicological Information

Acute toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Toluidine Blue O	None known	None known	None known
Water	90 mL/kg (Rat)	None known	None known

Chronic toxicity

Chemical name	ACGIH	IARC	NTP	OSHA
Toluidine Blue O	None known	None known	None known	None known
Water	None known	None known	None known	None known

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Toluidine Blue O	None known	None known	None known
Water	None known	None known	None known

12. Ecological Information

ecotoxicity

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Toluidine Blue O	None known	None known	None known	None known
Water	None known	None known	None known	None known

Persistence and degradability No information available.

Bioaccumulation/Accumulation No information available.

Chemical name	Log Pow
Toluidine Blue O	None known
Water	None known

13. Disposal Considerations

Waste Disposal Method

Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluidine Blue O - 92-31-9	None known	None known	None known	None known
Water - 7732-18-5	None known	None known	None known	None known

14. Transport Information

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Toluidine Blue O 92-31-9 (0.5)	Present	X	X	ENCS	X	KE-01314	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	X	X

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Toluidine Blue O	92-31-9	0.5	None known
Water	7732-18-5	to 100%	None known

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluidine Blue O 92-31-9 (0.5)	None known	None known	None known	None known
Water 7732-18-5 (to 100%)	None known	None known	None known	None known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depleters	Class 2 Ozone Depleters
Toluidine Blue O	92-31-9	0.5	None known	None known	None known	None known
Water	7732-18-5	to 100%	None known	None known	None known	None known

CERCLA

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Toluidine Blue O	None known	None known
Water	None known	None known

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical name	CAS-No	California Prop. 65
Toluidine Blue O	92-31-9	None known
Water	7732-18-5	None known

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Toluidine Blue O	None known	None known	None known	None known	None known
Water	None known	None known	None known	None known	None known

International Regulations**Mexico - Grade**

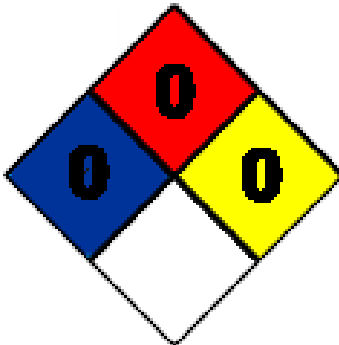

Chemical name	Carcinogen Status	Exposure Limits
Toluidine Blue O	None known	None known
Water	None known	None known

CANADA**NOT WHMIS CONTROLLED**

Component	WHMIS Hazard Class
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Toluidine Blue O 92-31-9 (0.5)	Not Determined
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria

16. Other information

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>0</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	0	Fire Hazard	0	Reactivity	0		
Health Hazard	0								
Fire Hazard	0								
Reactivity	0								

Prepared by
Issuing Date
Revision date
Revision note
Disclaimer

Regulatory Affairs Department
6/6/2013
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Initial Release. Update to Format.

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End of MSDS