



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. TT 191
Effective Date August 25, 1998

SECTION V HEALTH HAZARD DATA

TT 191

Threshold Limited Value None established by (ACGIH 1992-93).
No toxicity data available.

Effects of Overexposure May be harmful by inhalation, ingestion, or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize opportunities for direct contact with the skin or eyes and to prevent inhalation of dust.

Emergency and First Aid Procedures
SKIN: Flush thoroughly with water, then wash with mild soap and water.
EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink and call physician. Never give anything by mouth to an unconscious person.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability **Unstable** **Conditions to Avoid** Protect from light, excessive temperature and heat.
Stable X

Incompatibility (Materials to Avoid) Strong oxidizing materials.

Hazardous Decomposition Products Thermal decomposition or burning will produce oxides of nitrogen (NO_x), sulfur (SO₄) and chlorine.

Hazardous Polymerization **Conditions to Avoid**
May Occur **Will Not Occur** Not applicable.
X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Wear suitable protective clothing, sweep material onto paper. Place in a suitable container for disposal by incineration. Wash spill area well with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in accordance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation
Local Exhaust Recommended. **Special** No.
Mechanical (General) Recommended. **Other** No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, lab coat, apron, eye wash station, ventilation hood, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from oxidizing materials and protect from light. Wash thoroughly after handling.
Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.
Do not get in eyes, on skin, on clothing. Avoid breathing dust. Use with adequate ventilation. Strong dye. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4 **Date** 8/25/98 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	TOLUIDINE BLUE O, BIOLOGICAL STAIN
Chemical Synonyms	Basic Blue 17, Tolonium Chloride; C.I. No. 52040
Formula	C ₁₅ H ₁₆ ClN ₃ S
Unit Size	up to 2.5 Kg.
C.A.S. No.	92-31-9

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMIS *
Health 1
Fire 1
Reactivity 0

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Toluidine Blue O	100%	None established.
WARNING! MAY BE HARMFUL BY INHALATION,		
INGESTION, OR SKIN ABSORPTION. CAUSES		
EYE AND SKIN IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	No data available.	Specific Gravity (H ₂ O = 1)	No data available.
Boiling Point (°F)	No data available.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate ()	Non-volatile (NA).
Vapor Density (Air=1)	10.5		
Solubility in Water	Soluble.		
Appearance & Odor	Dark green powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	Lower Upper
		NA	-----
Extinguisher Media	Water spray; carbon dioxide (CO ₂); dry chemical (ABC).		

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of oxides of nitrogen (NO_x), sulfur (SO_x) and chlorine.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20