



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. TT 192  
Effective Date May 24, 1999

## SECTION V HEALTH HAZARD DATA

TT 192

### Threshold Limited Value

None established for this mixture. (ACGIH 1992-93).

### Effects of Overexposure

May be harmful by 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 potential hazards.

### 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, induce vomiting and call physician. Never give anything by mouth to an unconscious person. **INHALATION AS MIST:** 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, oxides of sulfur and chlorine. |
|----------------------------------|--|

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

## SECTION VII SPILL OR LEAK PROCEDURES

|   |  |
|---|--|
| Steps to be taken in case material is released or spilled | Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container for disposal. Wash spill area 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 an approved incinerator equipped with an afterburner and scrubber or dispose of in an approved chemical landfill.  |  |

## SECTION VIII SPECIAL PROTECTION INFORMATION

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

|             |                      |               |         |     |
|-------------|----------------------|---------------|---------|-----|
| Ventilation | Local Exhaust        | Not required. | Special | No. |
|             | Mechanical (General) | Not required. | Other   | No. |

|                   |         |                |                          |
|-------------------|---------|----------------|--------------------------|
| Protective Gloves | Rubber. | Eye Protection | Chemical safety glasses. |
|-------------------|---------|----------------|--------------------------|

|                            |   |
|----------------------------|---|
| Other Protective Equipment | Lab coat, apron, eye wash station, proper gloves. |
|----------------------------|---|

## SECTION IX SPECIAL PRECAUTIONS

|   |  |
|---|--|
| Precautions to be Taken in Handling & Storing | Store in a cool place. Wash thoroughly after handling.<br>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.<br><br>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 5/24/99 | 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, 0.5% SOLUTION |  |  |
| Chemical Synonyms | Tolonium Chloride               |  |  |
| Formula           | Mixture.                        |  |  |
| Unit Size         | up to 3.785 Lt.                 |  |  |
| C.A.S. No.        | Mixture.                        |  |  |

|   |            |   |
|---|------------|---|
| CHEMTREC<br>800-424-9300<br>Day 716-226-6177                          | Health     | 1 |
|   | Fire       | 0 |
| NFPA HAZARD RATING<br>LEAST SLIGHT MODERATE HIGH EXTREME<br>0 1 2 3 4 | Reactivity | 0 |
|   | HMIS *     |   |

## SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s)              | %     | TLV Units         |
|-------------------------------------|-------|-------------------|
| Toluidine Blue O: (CAS No. 92-31-9) | 0.5%  | None established. |
| Water: (CAS No. 7732-18-5)          | 99.5% | None established. |

**CAUTION! MAY BE HARMFUL IF SWALLOWED**

**AND ON CONTACT WITH SKIN AND EYES.**

## SECTION III PHYSICAL DATA

|                        |  |   |                      |
|------------------------|--|---|----------------------|
| Melting Point (°F)     | Freezes approx. 0°C (32°F)               | Specific Gravity (H <sub>2</sub> O = 1) | Approx. 1.0          |
| Boiling Point (°F)     | Approx. 100°C (212°F)                    | Percent Volatile by Volume (%)          | 99%                  |
| Vapor Pressure (mm Hg) | 14 (water)                               | Evaporation Rate (Water = 1)            | Slightly less than 1 |
| Vapor Density (Air=1)  | 0.7 (water)                              |   |                      |
| Solubility in Water    | Complete (3.82% as dry powder in water). |   |                      |
| Appearance & Odor      | Blue to violet water solution; no odor.  |   |                      |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

|                           |                |                                     |     |       |       |
|---------------------------|----------------|-------------------------------------|-----|-------|-------|
| Flash Point (Method Used) | Non-flammable. | Flammable Limits in Air % by Volume | N/A | Lower | Upper |
|---------------------------|----------------|-------------------------------------|-----|-------|-------|

|                    |   |
|--------------------|---|
| Extinguisher Media | Use any media suitable for extinguishing supporting fire. |
|--------------------|---|

### 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<sub>x</sub>), sulfur (SO<sub>x</sub>) and chlorine.

D.O.T. NON-REGULATED.

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