



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. AA 40  
Effective Date September 14, 1998

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

|                          |   |  |          |        |          |      |         |   |   |   |   |   |        |   |      |   |            |   |
|--------------------------|---|--|----------|--------|----------|------|---------|---|---|---|---|---|--------|---|------|---|------------|---|
| <b>Product</b>           | ACRIDINE ORANGE   |  <p>CHEMTREC<br/>800-424-9300<br/>Day 716-226-6177</p> <p>NFPA<br/>HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table> | LEAST    | SLIGHT | MODERATE | HIGH | EXTREME | 0 | 1 | 2 | 3 | 4 | Health | 2 | Fire | 0 | Reactivity | 0 |
| LEAST                    | SLIGHT  |  | MODERATE | HIGH   | EXTREME  |      |         |   |   |   |   |   |        |   |      |   |            |   |
| 0                        | 1   |  | 2        | 3      | 4        |      |         |   |   |   |   |   |        |   |      |   |            |   |
| Health                   | 2   |  |          |        |          |      |         |   |   |   |   |   |        |   |      |   |            |   |
| Fire                     | 0   |  |          |        |          |      |         |   |   |   |   |   |        |   |      |   |            |   |
| Reactivity               | 0   |  |          |        |          |      |         |   |   |   |   |   |        |   |      |   |            |   |
| <b>Chemical Synonyms</b> | N,N,N; N' - Tetramethyl-3, 6-acridinediamine•HCL, Basic Orange 14 |  |          |        |          |      |         |   |   |   |   |   |        |   |      |   |            |   |
| <b>Formula</b>           | C <sub>17</sub> H <sub>19</sub> N <sub>3</sub> •HCl               |  |          |        |          |      |         |   |   |   |   |   |        |   |      |   |            |   |
| <b>Unit Size</b>         | up to 100 grams   |  |          |        |          |      |         |   |   |   |   |   |        |   |      |   |            |   |
| <b>C.A.S. No.</b>        | 65-61-2   |  |          |        |          |      |         |   |   |   |   |   |        |   |      |   |            |   |

## SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s)           | %    | TLV Units         |
|----------------------------------|------|-------------------|
| Acridine Orange (C.I. No. 46005) | >98% | None established. |

**WARNING! MAY BE HARMFUL IF SWALLOWED, INHALED OR**

**ABSORBED THROUGH SKIN. CAUSES EYE AND SKIN IRRITATION.**

## SECTION III PHYSICAL DATA

|                        |   |   |                |
|------------------------|---|---|----------------|
| Melting Point (°F)     | 181°C (358°F).                                      | Specific Gravity (H <sub>2</sub> O = 1) | Not available. |
| Boiling Point (°F)     | Decomposes.   | Percent Volatile by Volume (%)          | Negligible.    |
| Vapor Pressure (mm Hg) | Negligible as solid.                                | Evaporation Rate (n-Butyl Ac. = 1)      | Negligible.    |
| Vapor Density (Air=1)  | Unknown.  |   |                |
| Solubility in Water    | Appreciable.  |   |                |
| Appearance & Odor      | Red-brown crystalline powder; no odor. Hygroscopic. |   |                |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

|                                  |   |                                     |     |       |       |
|----------------------------------|---|-------------------------------------|-----|-------|-------|
| <b>Flash Point (Method Used)</b> | Non-volatile solid (NA).  | Flammable Limits in Air % by Volume | N/A | Lower | Upper |
| <b>Extinguisher Media</b>        | Water spray; dry chemical (ABC); carbon dioxide (CO <sub>2</sub> ). |                                     |     |       |       |

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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

## SECTION V HEALTH HAZARD DATA AA 40

**Threshold Limited Value** None established.

**Effects of Overexposure** May be harmful by inhalation, ingestion, or skin absorption. Causes skin and eye irritation. Material is irritating to mucous membranes and upper respiratory tract. To the best of our knowledge, this chemical's physical and toxicological properties have not been thoroughly investigated. Specific data not available. Exercise appropriate procedures to minimize potential hazards.

**Emergency and First Aid Procedures**

**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION:** Remove to fresh air. If discomfort or illness develops, get medical attention. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration.

## SECTION VI REACTIVITY DATA

|                  |                 |   |  |
|------------------|-----------------|---|--|
| <b>Stability</b> | <b>Unstable</b> |   | <b>Conditions to Avoid</b> Excessive temperature and heat. Strong light. |
|                  | <b>Stable</b>   | X |  |

**Incompatibility (Materials to Avoid)** Strong oxidizers.

**Hazardous Decomposition Products** Combustion will produce CO<sub>2</sub> and probably CO. Hydrogen chloride gas and oxides of nitrogen may also be present.

|                                 |                            |
|---------------------------------|----------------------------|
| <b>Hazardous Polymerization</b> | <b>Conditions to Avoid</b> |
| <b>May Occur</b>                | <b>Will Not Occur</b>      |
|                                 | X                          |
|                                 | Not applicable             |

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Recover for use if not contaminated. Avoid creating dust. Sweep up and place in suitable container for proper 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.

## SECTION VIII SPECIAL PROTECTION INFORMATION

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

|                    |                             |                     |                |     |
|--------------------|-----------------------------|---------------------|----------------|-----|
| <b>Ventilation</b> | <b>Local Exhaust</b>        | <b>Recommended.</b> | <b>Special</b> | No. |
|                    | <b>Mechanical (General)</b> | <b>Recommended.</b> | <b>Other</b>   | No. |

|                          |                             |                       |                          |
|--------------------------|-----------------------------|-----------------------|--------------------------|
| <b>Protective Gloves</b> | Rubber to prevent staining. | <b>Eye Protection</b> | Chemical safety glasses. |
|--------------------------|-----------------------------|-----------------------|--------------------------|

**Other Protective Equipment** Goggles, smock, apron, ventilation hood, proper gloves, eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from oxidizing materials. 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. Avoid contact with skin or eyes. Use with adequate ventilation. Remove and wash contaminated clothing.

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

|                       |                     |                                 |                                       |
|-----------------------|---------------------|---------------------------------|---------------------------------------|
| <b>Revision</b> No. 4 | <b>Date</b> 9/14/98 | <b>Approved</b> Michael Raszeja | <b>Chemical Safety Coordinator</b> MR |
|-----------------------|---------------------|---------------------------------|---------------------------------------|

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