# SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

**Company Address:**
8125 Cobb Center Drive  
Kennesaw, GA 30152

**Product Information:** 800-TECH-401  
**Customer Service:** 800-645-5244  
**Emergency:** (Chemtrec) 800-424-9300  
**Revision Date:** August 20, 2004

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical Name  
**CAS No.**  
**Wt. % Range**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Wt. % Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver (Metallic)</td>
<td>7440-22-4</td>
<td>60.0-90.0</td>
</tr>
<tr>
<td>Modified Aliphatic Amine</td>
<td>140-31-8</td>
<td>10.0-25.0</td>
</tr>
</tbody>
</table>

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## SECTION 3: HAZARDOUS IDENTIFICATION

### Emergency Overview:
Silver/gray paste with amine odor. This product is nonflammable. Liquid will cause chemical burns in eye and on skin. Breathing high concentrations may cause respiratory irritation and allergic respiratory reaction.

### Potential Health Effects:

- **Eyes:** Liquid and vapors of this product may cause chemical burns in the eye. Damage is irreversible.
- **Skin:** Contact may cause chemical burns on the skin. Sensitizer - may cause allergic skin reaction.
- **Inhalation:** Harmful if inhaled. High concentrations in immediate area can cause respiratory irritation if inhaled. Sensitizer - may cause allergic respiratory reaction.
- **Pre-Existing Medical Conditions Aggravated by Exposure:** Heart, lung, eye, skin

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## SECTION 4: FIRST AID MEASURES

**Eyes:** Immediately flush with large amounts of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined by a Physician.

**Skin:** Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation persists. Wash clothes separately before reuse.

**Inhalation:** If swallowed, seek medical attention. Neutralize with milk or dilute with water.

**Pre-Existing Medical Conditions Aggravated by Exposure:** Heart, lung, eye, skin

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## SECTION 5: FIRE FIGHTING MEASURES

**Flash Point:** > 200°F (Setaflash)  
**LEL/UEL:** NA (% by volume in air)

**Extinguishing Media:** Use carbon dioxide or dry chemicals for small fires, aqueous foam or water for large fires.

**Fire Fighting Instructions:** Remove all sources of ignition. Closed containers may rupture due to build-up of pressure when exposed to extreme heat. In any fire, wear self-contained breathing apparatus (pressure demand, OSHA/NIOSH approved or equivalent) and full protective gear.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Large Spills:** Remove all sources of ignition (sparks, open flames, etc.). Wear self-contained breathing apparatus and appropriate personal protective equipment. Ventilate area and contain and absorb spill with inert material. Collect spill by scooping up liquids and absorbent material and place in a chemical waste container for proper disposal. Do not flush to sewer. Prevent material from entering storm sewers, ditches that lead to waterways and ground.

**Small Spills:** Absorb spill with absorbent material, then place in a chemical waste container for proper disposal.

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## SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with skin, eyes or clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor. Do not reuse this container. Store in a cool dry place, away from heat, sparks or flames.

**KEEP OUT OF REACH OF CHILDREN.**

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## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Guidelines:**

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>ACGIH STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>0.1 mg/m3</td>
<td>0.01mg/m3</td>
<td>NA</td>
</tr>
<tr>
<td>Modified Aliphatic Amine</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Work/Hygienic Practices:** Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields or goggles and rubber or other chemically resistant gloves when handling this material.

**NFPA and HMIS Codes:**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
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</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>-</td>
<td>B</td>
</tr>
</tbody>
</table>

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Silver/gray Paste

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Amine</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt;1.0 mmHg @ 20°C</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>&lt; 0.5%</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt;1 (Air = 1)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.5-2.8</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;1 (Butyl acetate=1)</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>&gt;400°F</td>
</tr>
</tbody>
</table>

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**Product Code:** CW2400, CW2400BLK (Part B)
SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable.  Conditions to Avoid: Excessive Heat.

Incompatibility: Avoid epoxy resins and isocyanates, strong acids, mineral and organic acids, strong bases, caustics and alkali contamination.

Products of Decomposition: Carbon monoxide, carbon dioxide and oxides of nitrogen.

Hazardous Polymerization: Will not occur.

Conditions to avoid: Contamination with strong acids, bases, epoxy resins or isocyanates can cause polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingredients | LD50 (rat) Oral | LD50 (rbd) Dermal | LC50 (ppm) (rat) Inhalation
--- | --- | --- | ---
Silver (metallic) | NA | NA | NA
Modified Aliphatic Amine | 2,140 mg/kg | 880 µL/kg | NA

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

Reproductive effects: none
Teratogenic effects: none
Mutagenic effects: none

SECTION 12: ECOLOGICAL INFORMATION

Environmental Impact Information
Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

REPORTING
US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is: 1-800-424-8802

SECTION 13: DISPOSAL CONSIDERATIONS
Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

SECTION 14: TRANSPORTATION INFORMATION

Air and Ground Shipments: Adhesives, sealants
Not Regulated

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Silver CAS # 7440-22-4 60.0-90.0%

This information should be included on all MSDSs copied and distributed for this material.

TOXIC SUBSTANCES CONTROL ACT (TSCA).
All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class D2B

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16: OTHER INFORMATION
Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.