SECTION I  IDENTIFICATION

INFO FURNISHED BY: ENGELHARD SPECIALTY CHEMICALS DIV - Electronics Group
ADDRESS: 1 West Central Ave, E. Newark, NJ 07029
EMERGENCY PHONE: 201-268-7844 (day) or CHEMTREC 800-424-9300 (night)
PRODUCT NAME: Silver Nitrate
MANUFACTURERS CODE: N/A
DATE EFFECTIVE: 9/27/83

SECTION II  HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>% PEL approx</th>
<th>TLV 10ug/m³</th>
<th>LEL %</th>
<th>UEL %</th>
<th>VAPOR PRESS mm Hg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver Nitrate (7761-88-8) as Ag</td>
<td>100</td>
<td>10ug/m³</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

SECTION III  PHYSICAL DATA

PERCENT VOLATILE (by weight): Not Determined
SPECIFIC GRAVITY (H₂O = 1): 4.35
APPEARANCE: Colorless rhombic crystals
ODOR: Odorless
VAPOR PRESSURE: Not Applicable
VAPOR DENSITY: Not Applicable
SOLUBILITY IN WATER (% by Wt): 122
EVAPORATION RATE: Not Applicable
MELTING POINT: 212 C (414 F)
DECOMPOSITION TEMPERATURE: 440 C (824 F)

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not Applicable
METHOD USED: Pensky Martens Closed Cup
EXTINGUISHING MEDIA: CO₂, Dry Chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing and self contained breathing apparatus
UNUSUAL FIRE AND EXPLOSION HAZARDS: Oxidizing material. Increases flammability of combustible, organic or other oxidizable materials
SECTION V HEALTH HAZARD DATA

** Routes of Exposure...Eye, Skin and Inhalation.  
** Oral Toxicity...Produces pigmentation of mucous membranes (Argyria)  
** LD50 mus: 50 mg/Kg  
** Inhalation Toxicity...Dusts, mists and aerosols are irritating to mucous membranes.  
** Dermal Toxicity...Expected to be moderately toxic.  
** Skin Irritation...Corrosive. Produces local pigmentation.  
** Eye Irritation...Corrosive. Produces burns to cornea and pigmentation of conjunctivae. Condition not reversible within 7 days. eye rbt: 1mg SEV  
** Ingestion............Induce vomiting by giving 2 glasses of water and sticking fingers down throat. Call physician.  
** Inhalation............Remove from contaminated area. Call physician  
** Skin Contact........Remove contaminated clothing. Wash thoroughly with soap and water. If discomfort persists, call physician  
** Eye Contact...........Flush thoroughly with water for 15 min, get immediate medical assistance.

SECTION VI REACTIVITY DATA

** Stability............Stable  
** Conditions to Avoid.............Light  
** Incompatibility (Materials to avoid).Alkalies, chlorides, carbonates, ferrous salts, and thiocyanates  
** Hazardous Decomposition Products............NOx and possibly metal oxide fumes

SECTION VII SPILL OR LEAK PROCEDURES

** Spill Procedure...Sweep up spill. Place spill in closed container.  
** Waste Disposal....Dispose of according to Federal, State and local regulations or send to refinery for recovery of precious metal.

SECTION VIII SPECIAL PROTECTION INFORMATION

** Respiratory...Respirator in poorly ventilated areas  
** Ventilation...Local exhaust  
** Gloves........Impervious  
** Eye........Safety glasses or goggles  
** Other........Apron or protective clothing recommended

SECTION IX SPECIAL PRECAUTIONS

** Handling and Storage...Keep containers tightly closed and store in cool, dry area. Separate from readily combustible materials.  
** Other............Wash hands and face after use, product contains silver.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. They are offered solely for your