SECTION I

PRODUCT IDENTIFICATION

NFPA HAZARD RATINGS

HEALTH HAZARD 1
FIRE HAZARD 0
REACTIVITY 0

Based on the National Fire Protection Association rating system
(0 = Minimal; 1 = Slight; 2 = Moderate; 3 = High; 4 = Severe)

SARA/ TITLE III HAZARD CATEGORIES (See Section IX)
Immediate (ACUTE) Health: NO  Reactive Hazard: NO  FPA Hazard Ratings: NO
Delayed (Chronic) Health: YES  Fire Hazard: NO

Company Name: STOLLER USA, INC.
Address: 4001 W. Sam Houston Parkway, N., Suite 100
Houston, Texas 77043-1226 U.S.A.
Emergency Phone Number: CHEMTREC: In the U.S. and Canada call Toll-free: 1 (800) 424-9300
From other countries call collect: 1 (703) 527-3887
Phone Number for Information: 1 (800) 539-5283 or 1 (713) 461-1493
Chemical Family: Organic salt solutions
Chemical Name & Synonyms: N/A, mixture
Formula: Proprietary
Trade name & Synonyms: KEYLATE® COMO

SECTION II

COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS#</th>
<th>Approx. %</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium molybdate, dihydrate</td>
<td>10102-40-6</td>
<td>7.6</td>
<td>5 mg/ m³ as Mo</td>
</tr>
<tr>
<td>Cobalt sulfate</td>
<td>10124-43-3</td>
<td>9.5</td>
<td>100 mg/ m³ as Co</td>
</tr>
</tbody>
</table>

SECTION III

HAZARD IDENTIFICATION

A. EXPOSURE LIMITS:
   1. OSHA Permissible Exposure Limit (PEL): 5 mg/ m³ as Mo
   2. Threshold Limit Value (TLV): 100 mg/ m³ as Co; 5mg/ m³ as Mo

B. CARCINOGEN OR POTENTIAL CARCINOGEN:

C. EFFECTS OF OVEREXPOSURE:
   1. ACUTE:
      EYES: Potential mild irritation.
      SKIN: Potential mild irritation.
      INHALATION: Potential mild irritation to respirator tract.

   INGESTION: Abdominal distress, nausea, respiratory depression.

   2. CHRONIC: Kidney damage may occur from chronic overexposure.

D. ADDITIONAL INFORMATION:
   Cobalt sulfate LD₅₀ (oral- rat):768 mg/ Kg/ Cobalt sulfate LD₅₀ (ivn- dog):16 mg/ Kg/
   Sodium molybdate LD₅₀ (ipr-rat):245 mg/ Kg

SECTION IV

FIRST- AID MEASURES

A. EMERGENCY FIRST AID PROCEDURES:
   EYES: Immediately flush with plenty of water for at least 15 minutes. Seek medical attention.
   SKIN: Wash thoroughly with soap and water. Seek medical attention if inflammation occurs.
   INHALATION: Remove from exposure area if irritation exists from mists or in the event of massive inhalation. Seek medical attention.
   INGESTION: Give at least two glasses of milk or water and induce vomiting. Get medical attention.

B. ADDITIONAL INFORMATION:
   Cobalt sulfate LD₅₀ (oral- rat):768 mg/ Kg/ Cobalt sulfate LD₅₀ (ivn- dog):16 mg/ Kg/
   Sodium molybdate LD₅₀ (ipr-rat):245 mg/ Kg
## SECTION V  
**FIRE AND EXPLOSION DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FLASH POINT:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>FLAMMABLE LIMITS:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>EXTINGUISHER MEDIA:</strong></td>
<td>All means to fight surrounding fire (water, CO₂, dry chemicals).</td>
</tr>
<tr>
<td><strong>SPECIAL FIRE FIGHTING PROCEDURES:</strong></td>
<td>Wear self-contained breathing apparatus.</td>
</tr>
<tr>
<td><strong>UNUSUAL FIRE AND EXPLOSION HAZARDS:</strong></td>
<td>Toxic fumes may be generated at elevated temperatures.</td>
</tr>
<tr>
<td><strong>HAZARDOUS DECOMPOSITION PRODUCTS:</strong></td>
<td>Not applicable (N/A)</td>
</tr>
</tbody>
</table>

## SECTION VI  
**ACCIDENTAL RELEASE MEASURES**

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:
Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as a solid waste.

## SECTION VII  
**HANDLING AND STORAGE**

Keep lid tightly closed. Store in dry area, above freezing and below 38°C (100°F), out of direct sunlight. Keep out of reach of children. Mix well before using.

## SECTION VIII  
**SPECIAL PROTECTION / CONTROL MEASURES**

**RESPIRATORY PROTECTION:** As required by conditions. Avoid breathing vapors, fumes or mist. Use an OSHA or NIOSH approved respirator if required.

**VENTILATION:** General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.

## SECTION IX  
**PHYSICAL AND CHEMICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BOILING POINT:</strong></td>
<td>110°C</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE (mm/Hg)</strong></td>
<td>Not known</td>
</tr>
<tr>
<td><strong>MELTING POINT:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY (air = 1):</strong></td>
<td>&gt;1</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY:</strong></td>
<td>1.19</td>
</tr>
<tr>
<td><strong>REACTIVITY IN WATER:</strong></td>
<td>N/E</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN WATER:</strong></td>
<td>&gt;99%</td>
</tr>
<tr>
<td><strong>EVAPORATION RATE:</strong></td>
<td>&lt;1</td>
</tr>
<tr>
<td><strong>APPEARANCE AND ODOR:</strong></td>
<td>Brown liquid with a characteristic odor.</td>
</tr>
</tbody>
</table>

## SECTION X  
**PHYSICAL HAZARDS (REACTIVITY DATA)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STABILITY:</strong></td>
<td>Stable: Yes Unstable: N/A</td>
</tr>
<tr>
<td><strong>CONDITIONS TO AVOID:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>INCOMPATIBILITY, MATERIALS TO AVOID:</strong></td>
<td>Unknown.</td>
</tr>
<tr>
<td><strong>HAZARDOUS DECOMPOSITION PRODUCTS:</strong></td>
<td>SO₂ and metal oxides may be evolved at high temperatures.</td>
</tr>
<tr>
<td><strong>POLYMERIZATION CONDITIONS TO AVOID:</strong></td>
<td>Will not occur</td>
</tr>
<tr>
<td><strong>MAY OCCUR:</strong></td>
<td>WILL NOT OCCUR: X</td>
</tr>
</tbody>
</table>
### SECTION XI  TOXICOLOGICAL INFORMATION

- **A. TOXICITY DATA:**
- **B. CARCINOGENICITY:**
- **C. MUTAGENICITY:**
- **D. REPRODUCTIVE TOXICITY:**

### SECTION XII  ENVIRONMENTAL EFFECTS DATA

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFT Part 370. Please consult those regulations for details.

### SECTION XIII  DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** Follow all applicable Federal, State and Local laws concerning health and environment.

### SECTION XIV  TRANSPORTATION DATA

- **PROPER SHIPPING NAME:** COMO
- **DOT HAZARD CLASS:** NON-HAZARDOUS
- **USDOT Proper Shipping Name:** N/A
- **IATA Proper Shipping Name:** N/A
- **IMO Proper Shipping Name:** N/A