Material Safety Data Sheet

MODEL 5440 Launchable Flameless Expulsion OC

QUICK IDENTIFIER
Common Name: (used on label and list)

SECTION 1
Manufacturer's Name: Combined Tactical Systems, Inc.
Address: 388 Kinsman Road
City, State and ZIP: Jamestown, PA 16134
Emergency Telephone No.: 800-424-9300
Other Information Calls: 724-932-2177
Signature of Person Responsible for Preparation (Optional):
Date Prepared: 12/13/00

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Exposure Limits</th>
<th>% (Optional)</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispersion Mixture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium Oxide</td>
<td>5mg/m³</td>
<td>5mg/m³</td>
<td></td>
<td></td>
<td>1309-48-4</td>
</tr>
<tr>
<td>Silane, dimethylchloro</td>
<td>20mppcf</td>
<td>10mg/m³</td>
<td></td>
<td></td>
<td>68611-44-9</td>
</tr>
<tr>
<td>Oleoresin Capsicum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8023-77-6</td>
</tr>
<tr>
<td>Vegetable Oil</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Specific Gravity H₂O=1</th>
<th></th>
<th>Vapor Pressure (mm Hg)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td></td>
<td></td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>Solubility in Water</td>
<td>Not soluble in water</td>
<td>Reactivity in Water</td>
<td>NA</td>
</tr>
<tr>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance &amp; Odor</td>
<td>52 Series Canister, silver in color, no odor</td>
<td>Melting Point</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4 - FIRE & EXPLOSION DATA

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>Method Used</th>
<th>Flammable Limits in Air % by Volume</th>
<th>LEL Lower</th>
<th>UEL Upper</th>
<th>Net Explosive Weight (NEW) 1gm (approx)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>1gm (approx)</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Extinguisher Media</td>
<td>water spray, Apply by mechanical means only.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special Fire Fighting Procedures: Fight all fires from a remote and explosion resistant site. Evacuate all non-essential personnel.

Unusual Fire & Explosion Hazards: Use water to cool containers exposed to fire.
SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability
- Unstable
- Stable

Conditions to Avoid
- Heat, flames, mechanical impact,
- Incompatibility (Materials to Avoid)
  - Acids, caustics and strong oxidizing agents

Hazardous Decomposition Products
- Burning may produce Nitrogen oxide carbon monoxide

Hazardous Polymerization
- May Occur
- Will Not Occur

SECTION 6 - HEALTH HAZARDS

1. Acute
   - None under normal handling

2. Chronic
   - None under normal handling

Signs and Symptoms of Exposure
- Tearing of eyes, irritation of respiratory tract and mucous membranes, and nose

Medical Conditions Generally Aggravated by Exposure
- None Known

Listed as Carcinogen or Potential Carcinogen
- National Toxicology Program
- I.A.R.C. Monographs
- OSHA

Emergency and First Aid Procedures
- If any medical problem arises from the use of this product seek medical attention from qualified medical persons.

ROUTES OF ENTRY

1. Inhalation
   - Fresh Air, Oxygen if needed

2. Eyes
   - Flush with copious amounts of water, fresh air

3. Skin
   - Wash with copious amounts of water

4. Ingestion
   - Contact Physician

SECTION 7 - SPECIAL PRECAUTIONS & SPILL / LEAK PROCEDURES

Precautions in Handling and Storage
- Keep away from heat, flames or strong oxidizers

Other precautions
- Handle as DOD, UN and DOT explosive device per Federal, State and Local laws.

Steps to be Taken in Case Material is released or Spilled
- Undamaged units may be picked up and returned to shipping container. Wear suitable protective clothing.

Waste Disposal Method
- By persons qualified to dispose of explosives at an approved site under approved procedures.

SECTION 8 - SPECIAL PROTECTION INFORMATION / CONTROL MEASURES

Respiratory Protection (Specify Type)
- Full face respirator with organic cartridge, or Self Contained Breathing Apparatus (SCBA)

Ventilation
- Yes
- Local Exhaust
- Yes
- Mechanical (General)
- Yes
- Special
- N/A
- Other
- N/A

Protective Gloves
- Yes
- Eye Protection
- Yes
- Other Protective Clothing or Equipment
- As necessary to prevent skin contact

Work / Hygienic Practices
- Wash thoroughly after handling

IMPORTANT - Do not leave any blank spaces. If required information is unavailable, unknown or does not apply, so indicate.