## PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>TRADE NAME: Ferret® 37 mm Liquid Round, OC</th>
<th>MANUFACTURED FOR: Safariland, LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL USE: Crowd Control</td>
<td></td>
</tr>
<tr>
<td>CHEMICAL FAMILY: Fuze/Charge/Chemical Irritant/Stain</td>
<td></td>
</tr>
<tr>
<td>PRODUCT DESCRIPTION: Canister containing reddish liquid - irritating contents. (Explosive Device)</td>
<td></td>
</tr>
</tbody>
</table>

### CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER

<table>
<thead>
<tr>
<th>CHEMTEL</th>
<th>1-800-255-3924</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America Toll Free</td>
<td></td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
</tbody>
</table>

### DATE PREPARED:

- **January 17, 2011**

### SUPERSEDES:

- 2008 edition

### COMPANY NAME:

- Defense Technology

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## HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING!** THIS DEVICE CONTAINS AN EXPLOSIVE CHARGE AND AN IRRITATING GAS. KEEP AWAY FROM FIRE AND HEAT SOURCES. DO NOT SUBJECT TO MECHANICAL OR ELECTRICAL SHOCK. THIS PRODUCT SHOULD ONLY BE DEPLOYED BY PERSONNEL TRAINED IN ITS PROPER USE. AS WITH ALL MUNITIONS, SHRAPNEL MAY BE EXPELLED FROM PRODUCT DURING NON-CONTROLLED IGNITION SUCH AS FIRES. Individual cartridges may ignite if the unit is exposed to extreme heat. Oxides of Nitrogen, Carbon, and Sulfur may be formed. The hazards from single exposures are generally slight. The gas component is temporarily irritating to eyes, skin, and the respiratory tract when in close proximity to a deployed device.

### POTENTIAL HEALTH EFFECTS

#### INHALATION:

Normal handling of the unused product poses no exposure hazards. Temporary respiratory irritation, including coughing and/or wheezing, will occur from exposure to deployed device at close proximity. While particles and vapors from deployed product may be an inhalation hazard, the risk is lessened where single exposures are concerned. Persons with pre-existing respiratory ailments are much more likely to develop cough and wheezing.

#### SKIN:

Slight skin irritation may occur if internal contents of device come in contact with the skin. Deployed product may cause temporary skin irritation to persons in close proximity. Liquid component will stain skin and clothing.

#### EYES:

Irritation will occur if contents of unused device come in contact with eyes. Temporary eye irritation will occur from exposure to deployed product at a close distance.

#### INGESTION:

Ingestion of deployed product is highly unlikely. Components of unused product are toxic and will cause irritation to throat and gastrointestinal tract.

#### CARCINOGENICITY:

Product contains lead salts, methylene chloride and rhodamine B, which are considered carcinogenic by the IARC, the NTP, OSHA, the ECHA (ESIS Notation), and the State of California (Proposition 65). These components pose no exposure risk in handling the unused product, and pose only a very slight risk in normal single deployments.
### SECTION 3 - HAZARDOUS INGREDIENTS

#### Powder Charge - Product will contain 1 or more of the following hazardous components

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>% (by Weight)</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Hazard Symbol</th>
<th>RISK PHRASES (Full Text Section 15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium perchlorate</td>
<td>NR</td>
<td>7778-74-7</td>
<td>231-912-9</td>
<td>Xn, O</td>
<td>R9, R22</td>
</tr>
<tr>
<td>Potassium nitrate</td>
<td>NR</td>
<td>7757-79-1</td>
<td>231-818-8</td>
<td>Xn, O</td>
<td>R8, R36/37/38</td>
</tr>
<tr>
<td>Sulfur</td>
<td>NR</td>
<td>7704-34-9</td>
<td>231-722-6</td>
<td>F, Xi</td>
<td>R11, R36/37/38</td>
</tr>
<tr>
<td>Charcoal</td>
<td>NR</td>
<td>16291-96-6</td>
<td>240-383-3</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Rosin</td>
<td>NR</td>
<td>8050-09-7</td>
<td>232-475-7</td>
<td>Xi</td>
<td>R43</td>
</tr>
<tr>
<td>Graphite</td>
<td>NR</td>
<td>7782-42-5</td>
<td>231-955-3</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

#### Primer - Product will contain 1 or more of the following hazardous components

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>% (by Weight)</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Hazard Symbol</th>
<th>RISK PHRASES (Full Text Section 15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Lead styphnate</td>
<td>NR</td>
<td>15245-44-0</td>
<td>239-290-0</td>
<td>E,T,N</td>
<td>R3, R20/22, R33, R50/53, R61, R62</td>
</tr>
<tr>
<td>Basic Lead styphnate</td>
<td>NR</td>
<td>12403-82-6</td>
<td>235-642-2</td>
<td>E,T,N</td>
<td>R3, R20/22, R33, R50/53, R61, R62</td>
</tr>
<tr>
<td>Lead Azide</td>
<td>NR</td>
<td>13424-46-9</td>
<td>236-542-1</td>
<td>E,T,N</td>
<td>R3, R20/22, R33, R50/53, R61, R62</td>
</tr>
<tr>
<td>Lead Thiocyanate</td>
<td>NR</td>
<td>592-87-0</td>
<td>209-774-6</td>
<td>T</td>
<td>R23/24/25</td>
</tr>
<tr>
<td>Nitrocellulose</td>
<td>NR</td>
<td>9004-70-0</td>
<td>NR</td>
<td>E,F</td>
<td>R1, R2, R5, R11</td>
</tr>
<tr>
<td>Tetracene</td>
<td>NR</td>
<td>109-27-3</td>
<td>203-659-4</td>
<td>E</td>
<td>R3, R5, R20/22</td>
</tr>
<tr>
<td>Potassium chlorate</td>
<td>NR</td>
<td>3811-04-9</td>
<td>223-289-7</td>
<td>Xn, O</td>
<td>R9, R20/22</td>
</tr>
<tr>
<td>Potassium nitrate</td>
<td>NR</td>
<td>7757-79-1</td>
<td>231-818-8</td>
<td>Xn, O</td>
<td>R8, R36/37/38</td>
</tr>
<tr>
<td>Barium nitrate</td>
<td>NR</td>
<td>10022-31-8</td>
<td>233-020-5</td>
<td>T, O</td>
<td>R8, R23/24/25</td>
</tr>
<tr>
<td>Antimony Sulfide</td>
<td>NR</td>
<td>1345-04-6</td>
<td>231-146-5</td>
<td>Xn, N</td>
<td>R20/22, R51/53</td>
</tr>
<tr>
<td>Zinc</td>
<td>NR</td>
<td>7440-66-6</td>
<td>231-175-3</td>
<td>N</td>
<td>R17, R50/53</td>
</tr>
</tbody>
</table>

#### Remainder of Product - Product will contain 1 or more of the following hazardous components

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>% (by Weight)</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Hazard Symbol</th>
<th>RISK PHRASES (Full Text Section 15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capsaicinoids</td>
<td>NR</td>
<td>404-86-4</td>
<td>206-969-8</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Methylene Chloride</td>
<td>NR</td>
<td>75-09-2</td>
<td>200-838-9</td>
<td>Xn</td>
<td>R40</td>
</tr>
<tr>
<td>Rhodamine B</td>
<td>NR</td>
<td>81-88-9</td>
<td>201-383-9</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Tin</td>
<td>NR</td>
<td>7440-31-5</td>
<td>231-141-8</td>
<td>F, Xi</td>
<td>R11, R36/37/38</td>
</tr>
<tr>
<td>Zinc</td>
<td>NR</td>
<td>7440-66-6</td>
<td>231-175-3</td>
<td>N</td>
<td>R17, R50/53</td>
</tr>
<tr>
<td>Chromium</td>
<td>NR</td>
<td>7440-47-3</td>
<td>231-157-5</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Copper</td>
<td>NR</td>
<td>7440-50-8</td>
<td>231-159-6</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Iron</td>
<td>NR</td>
<td>7439-89-6</td>
<td>231-096-4</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Aluminum</td>
<td>NR</td>
<td>7429-90-5</td>
<td>231-072-3</td>
<td>F</td>
<td>R15, R17</td>
</tr>
</tbody>
</table>

**NOTES:** This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1907/2006 (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 1907/2006 and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.
SECTION 4 - FIRST AID MEASURES

INHALATION:
For symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention.

EYES:
Remove contact lenses, then wash for 15 minutes with clean potable water lifting upper and lower lids occasionally. Seek medical attention if irritation persists.

SKIN:
Wash with plenty of soap and water. Seek medical attention if delayed dermatitis develops. For contact with burning (ignited) particles, medical treatment may be needed for thermal burns.

INGESTION:
Contact medical authorities immediately. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to avoid aspiration of regurgitant. Give 1-2 glasses of water to victim if victim is conscious and able to swallow and seek immediate medical assistance. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

EXTINGUISHING MEDIA:
Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

FIRE FIGHTING PROCEDURES:
In case of fire, use normal fire fighting equipment. Protection concerns must also address the potential of the physical characteristic of this product as explosive. Quarantine area for at least 1500 feet from fires involving product.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
If fire reaches cargo, do not fight; withdraw personnel to safe distance. Evacuate all persons, including emergency responders from the area for 1500 feet (1/3 mile) in all directions.

HAZARDOUS COMBUSTION PRODUCTS:
Metal Compounds, Carbon Monoxide, Carbon Dioxide, Nitrous Oxides, Various complex oxides of metals, Nitrogen.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
HANDLING: Cartridge may detonate or burn if case is punctured or severely damaged.
STORAGE: Avoid storage near extreme heat, ignition sources or open flame.
Shelf Life Limitations: Not known
Incompatible Materials for Packaging: None known
Incompatible Materials for Storage or Transport: Acids, Class A & B explosives, strong oxidizers, and caustics
CONDITIONS TO AVOID: Mechanical impact or shock, electrical discharge, high energy EM fields (radar stations).
### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS #</th>
<th>ACGIH Exposure Limits</th>
<th>OSHA Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony Sulfide</td>
<td>1345-04-6</td>
<td>0.5 mg/m³</td>
<td>0.5 mg/m³</td>
</tr>
<tr>
<td>Capsaicinoids</td>
<td>404-86-4</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Charcoal</td>
<td>7782-42-5</td>
<td>2 mg/m³</td>
<td>2.5 mg/m³ (respirable dust)</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>0.2 mg/m³ (fume)</td>
<td>0.1 mg/m³ (fume)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 mg/m³ (dusts and mists)</td>
<td>1 mg/m³ (dusts &amp; mists)</td>
</tr>
<tr>
<td>Dibutyl phthalate</td>
<td>84-74-2</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Diphenylamine</td>
<td>122-39-4</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>141-78-6</td>
<td>400 ppm (1400 mg/m³)</td>
<td>400 ppm (1400 mg/m³)</td>
</tr>
<tr>
<td>Glass Powder</td>
<td>65997-17-3</td>
<td>10 mg/m³ (particulate)</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>2 mg/m³</td>
<td>2.5 mg/m³ (respirable dust)</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>0.05 mg/m³ (Ceiling)</td>
<td>0.05 mg/m³ (Ceiling)</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>0.2 mg/m³</td>
<td>5 mg/m³ (Ceiling)</td>
</tr>
<tr>
<td>Methylene Chloride</td>
<td>75-09-2</td>
<td>50 ppm</td>
<td>25 ppm PEL, 125 ppm Ceiling</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>1.5 mg/m³ (inhalable)</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>2 mg/m³ (respirable)</td>
<td>NE</td>
</tr>
<tr>
<td>Methylene Chloride</td>
<td>75-09-2</td>
<td>50 ppm</td>
<td>25 ppm</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>1.5 (respirable)</td>
<td>1</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>Sensitizer - as low as possible</td>
<td>NE</td>
</tr>
<tr>
<td>Rhodamine B</td>
<td>88-81-9</td>
<td>100 ppm</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Silica, Fumed</td>
<td>7631-86-9</td>
<td>6 mg/m³ (NIOSH)</td>
<td>80 mg/m³</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>10 mg/m³</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td>Sulfur</td>
<td>7704-34-9</td>
<td>15 mg/m³</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Tin Dioxide</td>
<td>18282-10-5</td>
<td>2 mg/m³</td>
<td>2 mg/m³ (as Tin)</td>
</tr>
<tr>
<td>Tungsten</td>
<td>7440-33-7</td>
<td>5 mg/m³ TWA, 10 mg/m³ (STEL)</td>
<td>NE</td>
</tr>
</tbody>
</table>

Components not listed above do not have published exposure limits from ACGIH or OSHA.

**PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:**
A vapor respirator may be advisable or required under certain deployment conditions; consult manufacturer for further guidance.

**PROTECTIVE GLOVES:**
None required for handling unused product; where possible, use protective gloves for handling spent grenades.

**EYE PROTECTION:**
Safety glasses with side shields or face shield strongly suggested.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**
Local exhaust ventilation is recommended if product is discharged indoors. Hearing protection is recommended with all products containing an explosive charge.

**WORK / HYGIENIC PRACTICES:**
Avoid breathing fumes from ignition. DO NOT EAT/DRINK/SMOKE WHILE HANDLING PRODUCT!!!
**PRODUCT NAME:** Ferret® 37 mm Liquid Round, OC  
**PRODUCT NUMBER:** 1160  
**DATE:** January 17, 2011

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- **APPEARANCE AND ODOR:** Canister containing reddish liquid - irritating contents. (Explosive Device)
- **pH:** Not applicable.
- **MELTING POINT:** Not applicable.
- **FLASH POINT:** Not applicable.
- **FLAMMABLE LIMITS:** EXPLOSIVE!!!
  - LEL: None  
  -UEL: None
- **SOLUBILITY IN WATER:** Insoluble - some components are soluble in water
- **SPECIFIC GRAVITY (WATER = 1):** Not applicable
- **VISCOSITY:** Not applicable
- **VAPOR DENSITY (AIR = 1):** Not applicable
- **EVAPORATION RATE (WATER = 1):** Not applicable

### SECTION 10 - STABILITY AND REACTIVITY

- **STABILITY:** STABLE X
- **CONDITIONS TO AVOID:** Cartridge may detonate if case is punctured or severely damaged.

### SECTION 11 - TOXICOLOGICAL INFORMATION

**Complete Product**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Product contents are toxic; ingestion of used product is highly unlikely.</td>
</tr>
<tr>
<td>Dermal LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Product contents are temporarily irritating to skin</td>
</tr>
<tr>
<td>Inhalation LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Unused product is harmless. Vapors from deployed product may be slightly irritating.</td>
</tr>
<tr>
<td>Irritation</td>
<td>Not a skin or eye irritant in unused form. Vapors from used product will be irritating to skin and eyes, and possibly irritating to the respiratory system. Vapor and liquid will stain skin and clothing.</td>
</tr>
</tbody>
</table>

#### Product Components

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS #</th>
<th>LD50 of Ingredient (Oral, Rat - unless otherwise specified)</th>
<th>LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>7 g/kg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Antimony Sulfide</td>
<td>1345-04-6</td>
<td>7000 mg/kg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Basic Lead styphnate</td>
<td>12403-82-6</td>
<td>650 mg/kg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Bismuth</td>
<td>7440-69-9</td>
<td>5000 mg/kg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Boron</td>
<td>7440-42-8</td>
<td>650 mg/kg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Capsaicinoids</td>
<td>404-86-4</td>
<td>161.2 rat, male.</td>
<td>Not Established</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>5045 mg/kg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>413 mg/kg (oral, mouse)</td>
<td>&gt; 1000 mg/m³</td>
</tr>
<tr>
<td>Dibutyl phthalate</td>
<td>84-74-2</td>
<td>8 g/kg</td>
<td>4250 mg/m³</td>
</tr>
<tr>
<td>Diphenylamine</td>
<td>122-39-4</td>
<td>1120 mg/kg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>141-78-6</td>
<td>5620 mg/kg</td>
<td>200 gm/m³</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>30 g/kg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Not Established</td>
<td>IARC: Group 2A carcinogen</td>
</tr>
<tr>
<td>Methylene Chloride</td>
<td>75-09-2</td>
<td>2000 mg/kg</td>
<td>76000 mg/m³ 4h</td>
</tr>
<tr>
<td>Normal Lead styphnate</td>
<td>15245-44-0</td>
<td>650 mg/kg</td>
<td>Not Established</td>
</tr>
</tbody>
</table>
SECTION 11 - TOXICOLOGICAL INFORMATION Continued

Hazardous Components | CAS # | LD50 of Ingredient | LC50 of Ingredient
--- | --- | --- | ---
Rhodamine B | 81-88-9 | 887 mg/kg (Oral, Mouse) | Not Established
Rosin | 8050-09-7 | 3.0 mg/kg | 110 mg/m³
Silica, Fumed | 7631-86-9 | 3160 mg/kg as Silicon | Not Established
Silicon | 7440-21-3 | 3160 mg/kg | Not Established
Strontium nitrate | 10042-76-9 | 1892 mg/kg | Not Established
Tetracene | 109-27-3 | 1 – 3 g/kg | Not Established
Tin Dioxide | 18282-10-5 | >20 gm/kg | Not Established
Zinc | 7440-66-6 | > 8,437 mg/kg | Not Established

No LD50 or LC50 information is available for the following components: Aluminum, Calcium Silicide, Charcoal, Glass Powder, Graphite, Lead, Lead Azide, Lead Thiocyanate, Magnesium, Nickel, Nitrosodiphenylamine, Polyester Adipate, Potassium perchlorate, Tin, Tungsten

SECTION 12 - ECOLOGICAL INFORMATION

No data is available on this product, but leachates of metal components may be harmful or toxic to aquatic life and waterfowl. Collection and careful disposal of spent rounds is highly advisable. Lead and nickel are especially problematic when introduced into many ecosystems.

SECTION 13 - DISPOSAL CONSIDERATIONS

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous. Damaged materials pose a danger to anyone in the immediate area; consult experts for disposal of damaged products.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: AMMUNITION TEAR PRODUCING, UN 0301

DOT HAZARD CLASS / Pack Group: Explosives, 1.4G, (6.1), (8), / II
REFERENCE: 49CFR
UN / NA IDENTIFICATION NUMBER: UN0301
LABEL: Explosives 1.4G, Poison, Corrosive
HAZARD SYMBOLS: 

HAZARD SYMBOLS:

IATA HAZARD CLASS / Pack Group: 1.4G, (6.1), (8), / II, 75Kg Cargo Aircraft Only
IMDG HAZARD CLASS: Explosives 1.4G, (6.1), (8), / II
RID/ADR Dangerous Goods Code: Explosives 1.4G (Sub 6, 8.1)
UN TDG Class / Pack Group: 1.4G, (6.1), (8), / II
Hazard Identification Number (HIN): NA

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Ferret® 37 mm Liquid Round, OC
PRODUCT NUMBER: 1160
DATE: January 17, 2011

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): Components are listed under Section 8b.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):
- Acute Health: YES
- Chronic Health: YES
- Fire: YES
- Sudden Release of Pressure: YES
- Reactive: NO

SARA 313 REPORTABLE INGREDIENTS: Copper, Zinc (fume or dust), Lead, Antimony.

CERCLA (USA - Comprehensive Response Compensation and Liability Act):
- Copper, R.Q. = 5000 lbs.;
- Zinc, R.Q. = 1000 lbs.;
- Chloroacetophenone, R.Q. = 100 lbs.;
- Lead, R.Q. = 10 lbs.;
- Antimony, R.Q. = 5000 lbs.
(No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches), Methylene Chloride, R.Q. = 1000 lbs.)

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:
WARNING: This product contains methylene chloride and rhodamine B, chemicals known to the state of California to cause cancer.
WARNING: This product contains Lead salts, listed as “Lead, inorganic compounds”, a chemical known to the State of California to cause developmental reproductive toxicity and cancer.

State Right To Know Laws: This product contains chemicals listed on the Right-to-Know Laws of CA, FL, MA, MI, MN, NJ, PA, & RI.

CPR (Canadian Controlled Products Regulations):
Exempt under WHMIS regulations as explosive.

IDL (Canadian Ingredient Disclosure List):
Components are listed in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):
Listed or exempt on both CDSL and NDSL.

EINECS (European Inventory of Existing Commercial Chemical Substances):
Referenced.

WGK Water Quality Index:
NA for product.

EUROPEAN (GHS) HAZARD SYMBOLS

EU RISK PHRASES
- R2: Risk of explosion by shock, friction, fire or other sources of ignition.
- R20/22: Harmful by inhalation and if swallowed.
- R33: Danger of cumulative effects.
- R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R61: May cause harm to the unborn child.
- R62: Possible risk of impaired fertility.

EU SAFETY PHRASES
- S1/2: Keep locked up and out of the reach of children.
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S53: Avoid exposure — obtain special instructions before use.
- S60: This material and its container must be disposed of as hazardous waste.
**PRODUCT NAME:** Ferret® 37 mm Liquid Round, OC  
**PRODUCT NUMBER:** 1160  
**DATE:** January 17, 2011

### HMIS HAZARD RATINGS

<table>
<thead>
<tr>
<th>HEALTH:</th>
<th>2</th>
<th>0 = INSIGNIFICANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY:</td>
<td>3</td>
<td>1 = SLIGHT</td>
</tr>
<tr>
<td>PHYSICAL HAZARD:</td>
<td>2</td>
<td>2 = MODERATE</td>
</tr>
</tbody>
</table>

**Legend:**

ACGIH - American Congress of Government Industrial Hygienists, CAS - Chemical Abstracts Service  
EINECS - European Inventory of Existing Commercial Chemical Substances  
HMIS - Hazardous Materials Identification System, IARC - International Agency for Research on Cancer  
NA - Not Available, ND - Not Determined, NE - Not Established, NR - Not Reported  
NIOSH - National Institute for Occupational Safety and Health, NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration

Full R-Phrases:

- R1 Explosive when dry.  
- R2 Risk of explosion by shock, friction, fire or other sources of ignition.  
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.  
- R5 Heating may cause an explosion.  
- R8 Contact with combustible material may cause fire.  
- R9 Explosive when mixed with combustible material.  
- R11 Highly flammable.  
- R15 Contact with water liberates extremely flammable gases.  
- R17 Spontaneously flammable in air.  
- R20 Harmful by inhalation.  
- R20/22 Harmful by inhalation and if swallowed.  
- R22 Harmful if swallowed.  
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
- R23/25 Toxic by inhalation and if swallowed.  
- R24/26/28 Irritating to eyes.  
- R25/26/28 Irritating to eyes.  
- R26/28 Irritating to eyes, respiratory system and skin.  
- R33 Danger of cumulative effects.  
- R36 Irritating to eyes.  
- R36/37/38 Irritating to eyes, respiratory system and skin.  
- R40 Limited evidence of a carcinogenic effect.  
- R43 May cause sensitization by skin contact.  
- R45 May cause cancer.  
- R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
- R50 Very toxic to aquatic organisms.  
- R50/53 Very toxic to aquatic organisms.  
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
- R52/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
- R53/55 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
- R61 May cause harm to the unborn child.  
- R62 Possible risk of impaired fertility.  
- R66 Repeated exposure may cause skin dryness or cracking.  
- R67 Vapours may cause drowsiness and dizziness.  
- R68 Possible risk of irreversible effects.

**REVISION SUMMARY:** Revised 1/17/2011.

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.