SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MK46 First Defense Refill Kit
PRODUCT NUMBER(S): 5546
TRADE NAME: MK46 First Defense Refill Kit
GENERAL USE: Crowd control
CHEMICAL FAMILY: Capsaicins solution
PRODUCT DESCRIPTION: Creamy pungent liquid aerosol
MANUFACTURED FOR: Safariland LLC
DATE: August 14, 2008
SUPERSEDES: November 1, 2006
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway
ADDRESS (CITY, STATE AND ZIP CODE) Jacksonville, FL 32218
COUNTRY NAFTA
MANUFACTURED FOR: Safariland LLC
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway
ADDRESS (CITY, STATE AND ZIP CODE) Jacksonville, FL 32218
COUNTRY USA
CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER 1-800-255-3924 01-813-248-0585
CHEMICAL FAMILY: Capsaicins solution

SECTION 2 - HAZARDOUS INGREDIENTS

<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>&lt;1</td>
<td>404-86-4</td>
<td>206-969-8</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Propylene Glycol USP</td>
<td>10-15</td>
<td>57-55-6</td>
<td>200-338-0</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Specialty Denatured Alcohol (SDA) 40B*</td>
<td>20-30</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>(+F)</td>
<td>R11</td>
</tr>
<tr>
<td>Deionized Water</td>
<td>50-60</td>
<td>NR</td>
<td>NR</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

*Contains trace amounts of t-Butyl alcohol and Bitrex (denatonium benzoate)
Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Acute eye, skin, digestive and respiratory system irritation. Contents under pressure - may release product at elevated temperatures.

POTENTIAL HEALTH EFFECTS

INHALATION:
Burning sensation and irritation. Cough, rhinorrhea, sneezing, chest tightness, and laryngospasm may occur shortly following exposure due to the irritant effects. Ingredients may cause irritation through all routes of entry. Repeated contact may cause dermatitis.

SKIN:
Liquid concentrate can cause irritation and may be absorbed.

EYES:
Burning sensation and irritation.

INGESTION:
Ingestion may cause nausea, vomiting, and/or diarrhea.

CARCINOGENICITY:
NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No
CALIFORNIA, Prop.65? No ESIS? No

SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove patient to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration.

EYES:
First check the victim for contact lenses and remove if present. Flush victim’s eyes with water for at least 15 minutes. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. Seek medical attention for severe or continued irritation.

SKIN:
Wash with cool water & soap.

INGESTION:
Rinse mouth with plenty of water. If conscious, give milk or water, then seek medical attention.
### SECTION 5 - FIRE FIGHTING MEASURES

**GENERAL HAZARDS:**
Not Generally Flammable, as solution is water-based. Flash Point is above 220° F (104°C).

**EXTINGUISHING MEDIA:**
Use dry chemical, CO2, or water spray. Wear self-contained breathing apparatus.

**FIRE FIGHTING PROCEDURES:**
Use NIOSH or European EN149 approved chemical respirator. Use solvent-resistant type clothing with full jacket. Avoid absorption of product on clothing. If absorbed in clothing, remove and wash clothes at once. Use chemical-resistant goggles.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**
Pungent fumes may be emitted on exposure to elevated temperatures. Package is under pressure, and may release product when exposed to elevated temperatures.

**HAZARDOUS COMBUSTION PRODUCTS:**
Carbon dioxide, carbon monoxide, various hydrocarbons and small amounts of phosgene.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**
Soak up material in absorbent material and shovel into properly marked hazardous waste container for disposal at a licensed facility.

### SECTION 7 - HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**
Keep product in cool, dry place. Do not store at temperatures above 130° F. Do not puncture, crush, or incinerate cans.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capsaicinoids</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Propylene Glycol USP</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Specialty Denatured Alcohol (SDA) 408°</td>
<td>1000</td>
<td>1900</td>
<td>1000</td>
</tr>
<tr>
<td>Deionized Water</td>
<td>NE</td>
<td>NE</td>
<td>NR</td>
</tr>
</tbody>
</table>

**PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:**
Wear positive pressure NIOSH or European EN149 approved self-contained breathing apparatus (SCBA).

**PROTECTIVE GLOVES:**
Use solvent or chemical resistant rubber gloves.

**EYE PROTECTION:**
Use chemical-resistant goggles.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**
Use solvent-resistant type clothing with full jacket.

**WORK / HYGIENIC PRACTICES:**
Avoid absorption of product on clothing. If absorbed in clothing, remove and wash clothes at once.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>APPEARANCE AND ODOR</th>
<th>VAPOUR PRESSURE</th>
<th>SPECIFIC GRAVITY (WATER = 1)</th>
<th>SOLUBILITY IN WATER</th>
<th>VISCOSITY</th>
<th>FLAMMABLE LIMITS</th>
<th>EVAPORATION RATE (BUTYL ACETATE = 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creamy, pungent liquid aerosol.</td>
<td>NE</td>
<td>0.955</td>
<td>Soluble</td>
<td>NE</td>
<td>LEL: NA</td>
<td>NE</td>
</tr>
<tr>
<td>VOC</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td>UEL: NA</td>
<td>NA</td>
</tr>
<tr>
<td>BOILING POINT / BOILING RANGE</td>
<td>&gt;220°F</td>
<td></td>
<td></td>
<td></td>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>NE</td>
</tr>
<tr>
<td>FLAMMABLE LIMITS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>AUTOIGNITION TEMPERATURE</td>
<td>NA</td>
</tr>
</tbody>
</table>
**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME:** MK46 First Defense Refill Kit  
**PRODUCT NUMBER(S):** 5546  
**DATE:** August 14, 2008

### SECTION 10 - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td><em>x</em></td>
</tr>
</tbody>
</table>

**CONDITIONS TO AVOID:**  
Avoid exposure to extreme heat. Pungent fumes may be emitted on exposure to elevated temperatures. Contents under pressure.

**INCOMPATIBILITY (MATERIALS TO AVOID):**  
Unknown

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**  
Carbon dioxide, carbon monoxide, various hydrocarbons and small amounts of phosgene.

**HAZARDOUS POLMERIZATION:**  
Will not occur.

### SECTION 11 - TOXICOLOGICAL INFORMATION

#### Hazardous Components

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>LD50 of Ingredient (Specify Species and Route)</th>
<th>LC50 of Ingredient (Specify Species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capsaicinoids</td>
<td>404-86-4</td>
<td>NR</td>
<td>Oral, mouse: 47.2 mg/kg</td>
<td>NR</td>
</tr>
<tr>
<td></td>
<td>206-969-8</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol USP</td>
<td>57-55-6</td>
<td>NR</td>
<td>Oral, mouse: 20.3 g/kg</td>
<td>NR</td>
</tr>
<tr>
<td></td>
<td>200-338-0</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specialty Denatured Alcohol (SDA) 40B*</td>
<td>64-17-5</td>
<td>NR</td>
<td>Oral, mouse: 3450 mg/kg (MOST LIKELY LOWER THAN THIS)</td>
<td>NR</td>
</tr>
<tr>
<td></td>
<td>200-578-6</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deionized Water</td>
<td>NR</td>
<td>NR</td>
<td>NE</td>
<td>NR</td>
</tr>
</tbody>
</table>

### SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is presently available for this blended product. It is however known to be toxic.

### SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal as hazardous waste in a properly permitted facility. Respiratory protection must be worn when disposing of this product. Dispose in accordance with all applicable local, state and federal regulations.

### SECTION 14 - TRANSPORT INFORMATION

**PROPER SHIPPING NAME:** ORM-D USA (Ground only), Aerosols, Non-Flammable UN 1950 (North American Air), Tear Gas Devices, UN 1950 (International).

**DOT HAZARD CLASS / Pack Group:** ORM-D USA (Ground Only).

**REFERENCE:** 49CFR

**UN / NA IDENTIFICATION NUMBER:** ORM-D USA (Ground Only), NA Air: UN1950 International: UN1950

**LABEL:** ORM-D (USA Ground Only),( NA Air) Non-Flammable Gas 2.2, (International) Toxic, 6.1

**HAZARD SYMBOLS:**

- **Hazard Identification Number (HIN):** 26
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.
### SECTION 15 - REGULATORY INFORMATION

| TSCA (USA - Toxic Substance Control Act): | All ingredients listed. | Acute Health: | Yes | Chronic Health: | Yes |
| SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): | | Fire: | No | Sudden Release of Pressure: | Yes |
| Reactive: | No | 313 REPORTABLE INGREDIENTS: | None |

**CERCLA (USA - Comprehensive Response Compensation and Liability Act):** None listed

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:** None listed

**CCPR (Canadian Controlled Products Regulations):** Listed

**CIDL (Canadian Ingredient Disclosure List):** Listed

**CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):** t Listed on NDSL

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

**HGK Water Quality Index:** NE

### SECTION 16 - OTHER INFORMATION

**WGK Water Quality Index:**

- 1
- 2
- 3
- 4
- 5

**RISK PHRASES:**

- R36/37/38: Irritating to eyes, respiratory system, and skin.

**SYMBOL(S) REQUIRED FOR EU LABEL:**

- (+t) Toxic
- (+Xn) Harmful

**SAFETY PHRASES:**

- S2: Keep out of the reach of children.
- S7: Keep container tightly closed.
- S16: Keep away from sources of ignition - no smoking.
- S23.3: Do not breathe spray.
- S24/25: Avoid contact with skin and eyes.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S27/28: After contact with skin, immediately take off all contaminated clothing and wash immediately with plenty of water and soap.