SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MK4 First Defense Stream
PRODUCT NUMBER(S): 5047
TRADE NAME: MK4 First Defense Stream
GENERAL USE: Crowd control
CHEMICAL FAMILY: Capsaicins solution
PRODUCT DESCRIPTION: Creamy pungent liquid aerosol
MANUFACTURED FOR: Safariland LLC
DATE PREPARED: August 11, 2008
MANUFACTURED DATE: August 11, 2008
COUNTRY: USA
ADDRESS (NUMBER, STREET, P.O. BOX): 13386 International Parkway
ADDRESS (CITY, STATE AND ZIP CODE): Jacksonville, FL 32218
CITY: Jacksonville
STATE: Florida
ZIP CODE: 32218
PHONE NUMBER FOR INFORMATION / Customer Service: 904-741-5400
CHEMTel 24-HOUR EMERGENCY TELEPHONE NUMBER:
1-800-255-3924
North America Toll Free
01-813-248-0585
International
TRADE NAME: MK4 First Defense Stream
DATE PREPARED: August 11, 2008
DATE MANUFACTURED: August 11, 2008
SUPERSEDES: November 1, 2006

SECTION 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical</th>
<th>% (by Weight)</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Hazard Symbol</th>
<th>RISK PHRASES</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>10-20</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>25-35</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>
<tr>
<td>FD&amp;C #10 Food Coloring</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
</tr>
</tbody>
</table>

*Contains trace amounts of t-Butyl alcohol and Bitrex (denatonium benzoate)

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.
**PRODUCT NAME:** MK4 First Defense Stream  
**PRODUCT NUMBER(S):** 5047  
**DATE:** August 11, 2008

### SECTION 5 - FIRE FIGHTING MEASURES

**GENERAL HAZARDS:**  
Not Generally Flammable, as solution is water-based.

**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.

Use dry chemical, CO2, or water spray to fight surrounding fires.

**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 licenced 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) 40B*</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>
<tr>
<td>FD&amp;C #10 Food Coloring</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>VAPOR PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creamy, pungent liquid aerosol.</td>
<td>NE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VOC</th>
<th>Volatility</th>
<th>Aerosol</th>
<th>SPECIFIC GRAVITY (WATER = 1)</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOILING POINT / BOILING RANGE</th>
<th>SOLUBILITY IN WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;220°F</td>
<td>Soluble</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FLASH POINT</th>
<th>VISCOSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;220°F</td>
<td>NE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FLAMMABLE LIMITS</th>
<th>VAPOR DENSITY (AIR = 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEL: NA</td>
<td>NE</td>
</tr>
<tr>
<td>UEL: NA</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AUTOIGNITION TEMPERATURE</th>
<th>EVAPORATION RATE BUTYL ACETATE = 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>
PRODUCT NAME: MK4 First Defense Stream  
PRODUCT NUMBER(S): 5047  
DATE: August 11, 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>Avoid exposure to extreme heat. Pungent fumes may be emitted on exposure to elevated temperatures. Contents under pressure.</td>
</tr>
</tbody>
</table>

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

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

**HAZARDOUS POLYMERIZATION:**  
Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>LD50 of Ingredient</th>
<th>LC50 of Ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capsaicinoids</td>
<td>404-86-4</td>
<td></td>
<td>Oral, mouse: 47.2 mg/kg</td>
<td>NE</td>
</tr>
<tr>
<td></td>
<td>206-969-8</td>
<td></td>
<td>Oral, mouse: 20.3 g/kg</td>
<td>NR</td>
</tr>
<tr>
<td>Propylene Glycol USP</td>
<td>57-55-6</td>
<td>200-338-0</td>
<td>Oral, mouse: 3450 mg/kg</td>
<td>NR</td>
</tr>
<tr>
<td>Specialty Denatured Alcohol (SDA) 40B*</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>Oral, mouse: (Most likely lower than this figure)</td>
<td></td>
</tr>
<tr>
<td>Deionized Water</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
</tr>
<tr>
<td>FD&amp;C #10 Food Coloring</td>
<td>NR</td>
<td>NR</td>
<td>NR</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**

Waste Disposal Method:  
Dispose 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, UN1693 (International).

**DOT HAZARD CLASS / Pack Group:** ORM-D (North America)  
**IATA HAZARD CLASS / Pack Group:** ORM-D (USA AIR), UN1950/2.2, 75Kg Passenger, 150Kg Cargo (International).

**REFERENCE:** 49CFR

**UN / NA IDENTIFICATION NUMBER:** ORM-D (North America), UN1950 International.

**LABEL:** ORM-D (USA Ground Only), (NA Air) Non-Flammable Gas 2,2, (International) Toxic, 6.1

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

**CONDITIONS TO AVOID:** None related to polymerization.

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

**CONDITIONS TO AVOID:** None related to polymerization.

**TODO SHIPMENT NAME:** ORM-D USA (Ground only), Aerosols, Non-Flammable UN 1950 (North American Air), Tear Gas Devices, UN1693 (International).

**IATA HAZARD CLASS / Pack Group:** ORM-D (USA AIR), UN1950/2.2, 75Kg Passenger, 150Kg Cargo (International).

**RID/ADR Dangerous Goods Code:** 2.2 (6.1 sub)

**UN TDG Class / Pack Group:** NA Air: 2.2, International: 6.1

**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.
MATERIAL SAFETY DATA SHEET

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): All ingredients listed.
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):
  Acute Health: Yes
  Chronic Health: Yes
Fire: No
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.

RISK 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.

SAFETY PHRASES:
(+F) Flammable
(+t) Toxic
(+Xn) Harmful

SECTION 16 - OTHER INFORMATION

Legend
N/A = Not Applicable
N/D = Not Determined
N/E = Not Established
N/R = Not Reported

HMIS HAZARD RATINGS
HEALTH:
FLAMMABILITY:
PHYSICAL HAZARD:
PERSONAL PROTECTIVE EQUIPMENT:
  0 = INSIGNIFICANT
  1 = SLIGHT
  2 = MODERATE
  3 = HIGH
  4 = EXTREME

REVISION SUMMARY:
Revised to GHS/EU protocols 7/28/2008 supersedes 11/01/06 issue. LB

MSDS Prepared by:
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1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com

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.