1 Identification

- **Product identifier**
  - **Trade name:** First Defense® .7% MK-3 Stream OC Aerosol
  - **Article number:** 3005 (1012538)
  - **Recommended use and restriction on use**
    - **Recommended use:** Crowd Control Device
    - **Restrictions on use:** Contact manufacturer

- **Details of the supplier of the Safety Data Sheet**
  - **Manufacturer/Supplier:** Safariland, LLC
    13386 International Parkway
    Jacksonville, FL 32218
    Customer Care (800) 347-1200
  - **Information department:** Customer Care Department
  - **Emergency telephone number:**
    ChemTel Inc.
    +1 (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Press. Gas  H280  Contains gas under pressure; may explode if heated.
  - Skin Irrit. 2  H315  Causes skin irritation.
  - Eye Irrit. 2A  H319  Causes serious eye irritation.
  - STOT SE 3  H335  May cause respiratory irritation.

- **Additional information:**
  There are no other hazards not otherwise classified that have been identified.
  0 % of the mixture consists of component(s) of unknown toxicity.

- **Label elements**
  - **GHS label elements**
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms:**
    - GHS04
    - GHS07

- **Signal word:** Warning

- **Hazard-determining components of labeling:**
  Oleoresin Capsicum

- **Hazard statements:**
  - H280 Contains gas under pressure; may explode if heated.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H335 May cause respiratory irritation.

(Cont'd. on page 2)
Precautionary statements:
P261 Avoid breathing mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P305+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system

NFPA ratings (scale 0 - 4)
Health = 1
Fire = 3
Reactivity = 1

HMIS-ratings (scale 0 - 4)

3 Composition/information on ingredients

Chemical characterization: Mixtures

Components:
- 64-17-5 ethanol Flam. Liq. 2, H225 Eye Irrit. 2A, H319 25-50%
- 8023-77-6 Oleoresin Capsicum Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315 10-25%
- 57-55-6 Propylene Glycol
- 7727-37-9 nitrogen Press. Gas, H281 2.5-10%

Additional information:
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
4 First-aid measures

- General information: Take affected persons out into the fresh air.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation or rash occurs: Get medical advice/attention.
- After eye contact:
  Remove contact lenses if worn.
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
  Unlikely route of exposure.
  Rinse out mouth and then drink plenty of water.
  Do not induce vomiting; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed:
  Coughing
  Dizziness
  Irritant to skin and mucous membranes.
  Irritant to eyes.
  May cause respiratory irritation.
  Gastric or intestinal disorders when ingested.
- Danger: No relevant information available.

5 Fire-fighting measures

- Extinguishing media:
  Suitable extinguishing agents: Use fire fighting measures that suit the environment.
  For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture:
  Danger of receptacles bursting because of high vapor pressure if heated.

- Advice for firefighters:
  Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
- Additional information:
  Use large quantities of foam as it is partially destroyed by the product.
7 Handling and storage

- **Handling**
  - **Precautions for safe handling:**
    - Use only in well ventilated areas.
    - Avoid splashes or spray in enclosed areas.
  - **Information about protection against explosions and fires:**
    - Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.
    - Do not spray on a naked flame or any incandescent material.

- **Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and receptacles:**
      - Observe official regulations on storing packagings with pressurized containers.
    - **Information about storage in one common storage facility:**
      - Store away from foodstuffs.
    - **Further information about storage conditions:**
      - Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
  - **Specific end use(s):** No relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - **64-17-5 ethanol**
      - PEL (USA): Long-term value: 1900 mg/m³, 1000 ppm
      - REL (USA): Long-term value: 1900 mg/m³, 1000 ppm
      - TLV (USA): Short-term value: 1880 mg/m³, 1000 ppm
      - EL (Canada): Short-term value: 1000 ppm
      - EV (Canada): Long-term value: 1.900 mg/m³, 1.000 ppm
      - LMPE (Mexico): Long-term value: 1000 ppm
    - **7727-37-9 nitrogen**
      - TLV (USA): withdrawn TLV, see App. F; simple asphyxiant

(Cont'd. on page 5)
### Exposure controls
- **Engineering measures**: Provide adequate ventilation.
- **Personal protective equipment**:
  - **General protective and hygienic measures**: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
  - **Engineering controls**: No relevant information available.
  - **Breathing equipment**: Use suitable respiratory protective device when high concentrations are present.
  - **Protection of hands**:
    - **Protective gloves**: The glove material has to be impermeable and resistant to the product / the substance / the preparation.
    - **Material of gloves**: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
    - **Penetration time of glove material**: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection**:
    - **Safety glasses**
  - **Body protection**: Protective work clothing
  - **Limitation and supervision of exposure into the environment**: No relevant information available.

### Trade name: First Defense® .7% MK-3 Stream OC Aerosol

<table>
<thead>
<tr>
<th>Country</th>
<th>Classification</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>EL (Canada)</td>
<td>Simple asphyxiant</td>
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<tr>
<td>LMPE (Mexico)</td>
<td>Asfixiante simple</td>
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<tr>
<td>57-55-6 Propylene Glycol</td>
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<tr>
<td>WEEL (USA)</td>
<td>Long-term value: 10 mg/m³</td>
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</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 155* 10** mg/m³, 50* ppm</td>
<td>*vapour and aerosol;**aerosol only</td>
</tr>
</tbody>
</table>

(Cont'd. of page 4)
### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **Appearance:**
    - Form: Aerosol
    - Color: According to product specification
    - Odor: Pungent
    - Odor threshold: Not determined.
  - **pH-value:** Not determined.
  - **Melting point/Melting range:** Not determined.
  - **Boiling point/Boiling range:** Not applicable, as aerosol.
  - **Flash point:** Not applicable.
  - **Flammability (solid, gaseous):** Not applicable.
  - **Auto-ignition temperature:** Not determined.
  - **Decomposition temperature:** Not determined.
  - **Auto igniting:** Product is not self-igniting.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Explosion limits**
    - Lower: Not determined.
    - Upper: Not determined.
  - **Vapor pressure:** Not determined.
  - **Density:** Not determined.
  - **Relative density:** Not determined.
  - **Vapor density:** Not determined.
  - **Evaporation rate:** Not determined.
  - **Solubility in / Miscibility with**
    - Water: Fully miscible.
  - **Partition coefficient (n-octanol/water):** Not determined.
  - **Viscosity**
    - Dynamic: Not determined.
    - Kinematic: Not determined.
  - **Other information**
    - No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
  - Danger of receptacles bursting because of high vapor pressure if heated.
- **Possibility of hazardous reactions:** No dangerous reactions known.
11 Toxicological information

- Information on toxicological effects

  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      - **112-34-5 2-(2-butoxyethoxy)ethanol**
        - Oral LD50: 5660 mg/kg (rat)
        - Dermal LD50: 4000 mg/kg (rabbit)
      - **8023-77-6 Oleoresin Capsicum**
        - Oral LD50: 3000 mg/kg (rat)
        - Dermal LD50: >2500 mg/kg (mouse)
    - Primary irritant effect:
      - On the skin: Irritant to skin and mucous membranes.
      - On the eye: Irritating effect.
      - Sensitization: No sensitizing effects known.
      - Subacute to chronic toxicity: No relevant information available.
    - Carcinogenic categories
      - IARC (International Agency for Research on Cancer):
        None of the ingredients are listed.
      - NTP (National Toxicology Program):
        None of the ingredients are listed.
      - OSHA-Ca (Occupational Safety & Health Administration):
        None of the ingredients are listed.

  - Probable route(s) of exposure:
    - Inhalation.
    - Eye contact.
    - Skin contact.

  - Acute effects (acute toxicity, irritation and corrosivity):
    - Irritating to eyes.
    - Irritating to respiratory system.
    - Irritating to skin.

  - Repeated dose toxicity: No relevant information available.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No relevant information available.
  - Persistence and degradability: No relevant information available.
13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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.
  - Uncleaned packagings
    - Recommendation: Disposal must be made according to official regulations.
    - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number DOT, ADR, IMDG, IATA
  - UN1950

- UN proper shipping name
  - DOT Aerosols, non-flammable
  - ADR 1950 AEROSOLS
  - IMDG AEROSOLS
  - IATA AEROSOLS, non-flammable

- Transport hazard class(es)
  - DOT
    - Class 2.2
    - Label 2.2
  - ADR
    - Class 2.2 5A
### Trade name: First Defense® .7% MK-3 Stream OC Aerosol

<table>
<thead>
<tr>
<th>· Label</th>
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<td>· DOT, ADR, IMDG, IATA</td>
<td>II</td>
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</tbody>
</table>

#### Environmental hazards
- Marine pollutant: No

#### Special precautions for user
- Not applicable.
- Danger code (Kemler): 20
- EMS Number: F-D,S-U

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable.

#### Transport/Additional information:
- DOT
  - Quantity limitations:
    - On passenger aircraft/rail: 75 kg
    - On cargo aircraft only: 150 kg

#### ADR
- Excepted quantities (EQ): Code: E0
  - Not permitted as Excepted Quantity

#### IMDG
- Excepted quantities (EQ): Code: E0
  - Not permitted as Excepted Quantity

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - United States (USA)
  - SARA
  - Section 302 (extremely hazardous substances):
    - None of the ingredients are listed.
  - Section 304 (emergency release notification):
    - None of the ingredients are listed.
  - Sections 311/312 (hazardous chemical threshold planning quantity in pounds):
    - None of the ingredients are listed.
| Section 355 (extremely hazardous substances): | None of the ingredients are listed. |
| Section 313 (Specific toxic chemical listings): | None of the ingredients are listed. |
| TSCA (Toxic Substances Control Act) | All ingredients are listed. |
| Proposition 65 (California) | Chemicals known to cause cancer: Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. 64-17-5 ethanol |
| Chemicals known to cause reproductive toxicity for females: | None of the ingredients are listed. |
| Chemicals known to cause reproductive toxicity for males: | None of the ingredients are listed. |
| Chemicals known to cause developmental toxicity: Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. | 64-17-5 ethanol |
| Carcinogenic categories | EPA (Environmental Protection Agency): None of the ingredients are listed. |
| IARC (International Agency for Research on Cancer): | None of the ingredients are listed. |
| NIOSH-Ca (National Institute for Occupational Safety and Health): | None of the ingredients are listed. |
| Canadian substance listings | Canadian Domestic Substances List (DSL): All ingredients are listed. |
| | Canadian Ingredient Disclosure list (limit 0.1%): 64-17-5 ethanol |
| | Canadian Ingredient Disclosure list (limit 1%): 57-55-6 Propylene Glycol |

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision:** 03/18/2016 / -

- **Abbreviations and acronyms:**
  - ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
**Trade name:** First Defense® .7% MK-3 Stream OC Aerosol

IATA: International Air Transport Association  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Press. Gas: Gases under pressure: Compressed gas  
Press. Gas: Gases under pressure: Refrigerated liquefied gas  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

**Sources**

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