1 Identification

- **Product identifier**
- **Trade name:** First Defense®, OC, Stream 1.3%
- **Product code:** 43345, 43445, 43665, 56825, 56833, 56843, 56895, 86865, 86885, 86885R
- **Recommended use and restriction on use**
  - **Recommended use:** Crowd Control Device
  - **Restrictions on use:** Contact manufacturer/supplier

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

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.

- **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 statements:**
  - H280 Contains gas under pressure; may explode if heated.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H335 May cause respiratory irritation.
- **Precautionary statements:**
  - P261 Avoid breathing mist, vapors, or spray.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves and eye protection.
  - P302+P352 If on skin: Wash with plenty of soap and water.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

(Cont’d. on page 2)
Trade name: First Defense®, OC, Stream 1.3%

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a poison center/doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-34-5 2-(2-butoxyethoxy)ethanol</td>
<td>60-80%</td>
</tr>
<tr>
<td>57-55-6 Propylene glycol</td>
<td>10-20%</td>
</tr>
<tr>
<td>7727-37-9 Nitrogen</td>
<td>&lt;20%</td>
</tr>
<tr>
<td>8023-77-6 Oleoresin Capsicum</td>
<td>≤10%</td>
</tr>
</tbody>
</table>

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

- Description of first aid measures

After inhalation:
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.

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.
Trade name: First Defense®, OC, Stream 1.3%

Causes eye irritation.
May cause respiratory irritation.
Gastric or intestinal disorders when ingested.

• Indication of any immediate medical attention and special treatment needed:
  Medical supervision for at least 48 hours.
  If necessary oxygen respiration treatment.

5 Fire-fighting measures

• Extinguishing media
  • Suitable extinguishing agents:
    The product is not flammable.
    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.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures
  Use personal protective equipment as required.
  For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
  For large spills, wear protective clothing.
  Ensure adequate ventilation.

  • Environmental precautions No special measures required.

• Methods and material for containment and cleaning up
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Send for recovery or disposal in suitable receptacles.

• Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

• Handling
  • Precautions for safe handling:
    Use only in well ventilated areas.
    Avoid splashes or spray in enclosed areas.
    Avoid contact with the eyes and skin.
    Avoid breathing mist, vapors, or spray.
    Handle with care.
  • Information about protection against explosions and fires:

(Cont'd. of page 2)
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.

- **Conditions for safe storage, including any incompatibilities**
- **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:**

<table>
<thead>
<tr>
<th>Component</th>
<th>TLV (USA)</th>
<th>WEEL (USA)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-34-5 2-(2-butoxyethoxy)ethanol</td>
<td>Long-term value: 67.5* mg/m³, 10* ppm</td>
<td>*Inhalable fraction and vapor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>57-55-6 Propylene glycol</td>
<td>Long-term value: 10 mg/m³</td>
<td>Long-term value: 155** 10** mg/m³, 50* ppm</td>
<td>*vapour and aerosol;**aerosol only</td>
<td></td>
</tr>
<tr>
<td>7727-37-9 Nitrogen</td>
<td>withdrawn TLV, see App. F; simple asphyxiant</td>
<td>Simple asphyxiant</td>
<td>Asfixiante simple</td>
<td></td>
</tr>
</tbody>
</table>

#### Exposure controls

- **Engineering measures** Provide adequate ventilation.
- **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](image)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**

(Cont'd. on page 5)
### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td></td>
</tr>
<tr>
<td>Form: Aerosol</td>
<td></td>
</tr>
<tr>
<td>Color: According to product specification</td>
<td></td>
</tr>
<tr>
<td>Odor: Pungent</td>
<td></td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
<td></td>
</tr>
<tr>
<td>pH-value: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Boiling point/Boiling range: Not applicable, as aerosol.</td>
<td></td>
</tr>
<tr>
<td>Flash point: Not applicable, as aerosol.</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gaseous): Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Danger of explosion: Product does not present an explosion hazard.</td>
<td></td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Upper: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties: Non-oxidizing.</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Density:</td>
<td></td>
</tr>
<tr>
<td>Relative density: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Vapor density: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water: Fully miscible.</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water): Not determined.</td>
<td></td>
</tr>
<tr>
<td>Viscosity:</td>
<td></td>
</tr>
<tr>
<td>Dynamic: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Kinematic: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Other information: No relevant information available.</td>
<td></td>
</tr>
</tbody>
</table>
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.
- Conditions to avoid Excessive heat.
- Incompatible materials No relevant information available.
- Hazardous decomposition products Possible in traces.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>Compound</th>
<th>Oral LD50 (mg/kg, rat)</th>
<th>Dermal LD50 (mg/kg, rabbit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>5660</td>
<td>4000</td>
</tr>
<tr>
<td>Oleoresin Capsicum</td>
<td>3000</td>
<td>&gt;2500</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
- On the skin: Irritant to skin and mucous membranes.
- On the eye: Causes eye irritation.
- Sensitization: No sensitizing effects known.

- 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.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: May cause respiratory irritation.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential** No relevant information available.
- **Mobility in soil** No relevant information available.
- **Additional ecological information**
  - **General notes:**
    - Negative ecological effects are, according to the current state of knowledge, not expected.
  - **Other adverse effects** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**
    - 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.
  - **Uncleaned packagings**
    - **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT, ADR/RID/ADN, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN1950</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Aerosols</td>
</tr>
<tr>
<td>DOT</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>ADR/RID/ADN</td>
<td>Aerosols, non-flammable</td>
</tr>
<tr>
<td>IATA</td>
<td></td>
</tr>
</tbody>
</table>

- **Transport hazard class(es)**
  - **DOT**
    - **Class** 2.2
    - **Label** 2.2
  - **ADR/RID/ADN**
    - **Class** 2.2 5A
Trade name: First Defense®, OC, Stream 1.3%

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 355 (extremely hazardous substances):
    None of the ingredients are listed.
  - Section 313 (Specific toxic chemical listings):
    - 112-34-5 2-(2-butoxyethoxy)ethanol
  - TSCA (Toxic Substances Control Act)
    All ingredients are listed or exempt.
- Proposition 65 (California)
  - Chemicals known to cause cancer:
    None of the ingredients are listed.
  - Chemicals known to cause developmental toxicity for females:
    None of the ingredients are listed.
  - Chemicals known to cause developmental toxicity for males:
    None of the ingredients are listed.
  - Chemicals known to cause developmental toxicity:
Trade name: First Defense®, OC, Stream 1.3%

None of the ingredients are listed.

**EPA (Environmental Protection Agency):**
None of the ingredients are listed.

**IARC (International Agency for Research on Cancer):**
None of the ingredients are listed.

**Canadian Domestic Substances List (DSL):**
All ingredients are listed or exempt.

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.

**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
- IATA: International Air Transport Association
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- OSHA: Occupational Safety & Health Administration
- Press. Gas: Gases under pressure – Compressed gas
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**Sources**
- Website, European Chemicals Agency (echa.europa.eu)
- Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
- Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
- Safety Data Sheets, Individual Manufacturers

SDS Prepared by:
ChemTel Inc.
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
BALL•ISTICS

Material Safety Data Sheet (MSDS)

Date Printed: 12/05/2006
Date Updated: 11/03/2006
Version C-12.4

SECTION I - Product Name/Manufacturer Identification

Product Name: Max-10 Capsaicin Projectile Powder
Product Use: Incapacitant Projectile Fill
Manufacturer Identification:
  Manufacturer Name; Ball•istics
  Address; P.O. Box 66
  Lenore, Idaho USA 83541
  Emergency Telephone Number; (208) 476-5760
  FAX Number; (208) 476-5760

Senior Chemist:

SECTION II - Composition/Information on Ingredient

Active Component(s); Capsaicin
  Formula: C_{16}H_{18}NO_{3}
  Synonyms; Synthetic capsaicin, capsaicinoid, red pepper extract, VP
  Certified level; 0.5% +/- 0.02% w/w synthetic capsaicin
Inert Ingredients: A proprietary combination of inert carriers and dispersion agents to include
  Amorphous mineral oxides and inorganic salts

SECTION III - Physical Data/Chemical Properties

Boiling Point - Not Applicable
Percent Volatile - 0%
Vapor Pressure(mmHg) - Not Applicable
Appearance - Finely ground dense powder
Specific Gravity - 3.98
Color - White to off white/buff
Solubility in water - 0.5%
Odor - Pungent, irritating
Evaporation Rate - 0

SECTION IV - Fire and Explosion Hazard Data

Explosion Data - Non explosive. No upper or lower explosive limits
Flash Point - Non-Flammable
Extinguishing Media - Use extinguishing media appropriate to surrounding fire conditions
Unusual Fire and Explosion Hazards - None
HMIS Rating - Health: 1 Flammability: 0 Reactivity: 0
SECTION V - Stability and Reactivity Data

Chemical Stability:
- Stable X
- Unstable

Incompatible/Materials to Avoid; None

Hazardous Decomposition Products:
- Will occur __
- Will not occur X

Hazardous Polymerization Products:
- Will occur __
- Will not occur X

SECTION VI - Potential Health Effects/Exposure Guidelines

Primary Routes of Entry:
Inhalation
Skin
Eyes

User Exposure:
Skin contact with powder may cause temporary acute pain and rubefacient effect.

Carcinogenicity:
None of the components present in this product are listed by IARC, NPT, OSHA, or ACGIH as a carcinogen.

Exposure Guidelines:
- PEL - 1000 ppm 8 Hr. TWA
- STEL - 1000 ppm WEEL - 1000 ppm

SECTION VII - First Aid Measures

INHALATION
If high concentrations are inhaled, immediately remove subject to fresh air. Keep person calm. If not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. Symptoms may include: coughing, sneezing, nausea and vomiting. If breathing difficulty persists, seek medical attention.

SKIN CONTACT:
In case of contact, wash skin with soap and water to prevent further exposure. Flush skin with copious amounts of cool water to minimize irritant effect. Wash contaminated clothing before reuse. Do not apply salves or dressing to affected areas.

EYE CONTACT:
Remove contact lenses and flush eyes with copious quantities of cool water. Move patient to fresh air as soon as possible.

INGESTION:
Although ingestion is unlikely and not considered a potential route of exposure, patients should be treated as an acute upper airway burn by an appropriate specialist. Do not induce vomiting.

Delayed Effects - Rubefacient effects usually subside within 30 minutes. Cool water or cool circulating air will minimize discomfort.

Advice to Physician/Special considerations - Inhalation may aggravate or initiate asthmatic episodes. Pre-existing skin disorders may be aggravated by exposure to this material. Treat patient as if acute upper airway burn.
SECTION VIII - Accidental Release/Disposal Considerations

Steps to be taken in case material is accidentally released;
   Respiratory protection - NIOSHA approved respirator.
   Ventilation - Mechanical ventilation to keep exposure below recommended limits.
   Protective gloves - Rubber, PVA, or neoprene
   Eye protection - Safety goggles or face shield
   Skin protection - Use appropriate barrier clothing.
Methods for Cleaning Up -
   Protective Equipment - Wear goggles and use NIOSH/MSHA approved respirator or self-
   contained breathing apparatus (SCBA) and full protective clothing to protect from
   incapacitating effects of capsaicin exposure.
Procedure to be Followed in Case of Leak or Spill -
   Evacuate area, sweep up material, place in bag and hold for waste disposal. Care
   should be taken to avoid causing dust to become airborne. Ventilate area and wash
   spill site with water after material pickup is complete.
Waste Disposal Measures: Not considered a hazardous waste as referenced in 40 CFR 261.24 or 261.3.

SECTION IX - Precautions for Safe Handling and Use

Precautions to be taken in storage and handling; Keep tightly closed. Store in a cool dry place.
Proper disposal of containers; Dispose of in municipal waste in accordance with Federal, State
or Local regulations or offer for recycling if appropriate for area.

SECTION X - Transportation Information

DOT Classification - Class 55
Hazard Class - Not considered a hazardous material

SECTION XI - Environmental Impact

California: This material does not contain any components listed under California Proposition 65.
Clean Air Act Amendments of 1990 (CAA 40 CFR): No components are listed as hazardous air
pollutants. The product is not made with or does it contain any Class 1 or Class 2 ozone depleting
substances as defined under the amendments to the act.
Clean Water Act (40 CFR 116): Not listed
Canadian WHMIS - Not a controlled product
CERCLA - Not a hazardous substance as referenced in 40 CFR 302.4. It is not on the list of hazardous
substances under the clean water act (40 CFR 116 and 117).

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE AND RELIABLE,
HOWEVER, NO WARRANTY EITHER EXPRESSED OR IMPLIED IS MADE. CONDITIONS
UNDER WHICH THIS INFORMATION MAY BE APPLIED ARE BEYOND OUR CONTROL AND
WE CAN ASSUME NO LIABILITY FOR RESULTS OF ITS APPLICATION. THIS PRODUCT IS
DESIGNED TO BE USED BY PERSONS HAVING SUFFICIENT SKILL TO MAKE INFORMED
JUDGEMENTS REGARDING ITS APPLICATION.
SECTION I - Product Name/Manufacturer Identification

Product Name: Max-10 Inert Projectile Powder
Product Use: Projectile Fill for Training Purposes
Manufacturer Identification:
  Manufacturer Name: Ballistics
  Address: P.O. Box 66
  Lenore, Idaho USA 83541
  Emergency Telephone Number: (208) 476-5760
  FAX Number: (208) 476-5760

SECTION II - Composition/Information on Ingredient

Active Components: None

Inert Ingredients: A proprietary combination of inert carriers and dispersion agents to include Amorphous mineral oxides and inorganic salts

SECTION III - Physical Data/Chemical Properties

Boiling Point - Not Applicable
Vapor Pressure(mmHg) - Not Applicable
Specific Gravity - 3.98
Solubility in water - 0.05%
Evaporation Rate - 0

Percent Volatile - 0%
Appearance - Finely ground dense powder
Color - White to off white/buff
Odor - Odorless or Scented

SECTION IV - Fire and Explosion Hazard Data

Explosion Data - Non explosive. No upper or lower explosive limits
Flash Point - Non-Flammable
Extinguishing Media - Use extinguishing media appropriate to surrounding fire conditions
Unusual Fire and Explosion Hazards - None

HMIS Rating - Health: 1 Flammability: 0 Reactivity: 0
SECTION V - Stability and Reactivity Data

Chemical Stability:
- Stable  X
- Unstable _____

Incompatible/Materials to Avoid; None

Hazardous Decomposition Products:
- Will occur _____
- Will not occur  X

Hazardous Polymerization Products:
- Will occur _____
- Will not occur  X

SECTION VI - Potential Health Effects/Exposure Guidelines

Primary Routes of Entry:
- Inhalation
- Skin
- Eyes

User Exposure:
Skin contact with powder may cause slight drying or mechanical irritation due to abrasion.

Carcinogenicity:
None of the components present in this product are listed by IARC, NPT, OSHA, or ACGIH as a carcinogen.

Chronic Health Effects:
Heavy extended industrial exposure to the dust may produce a benign pneumoconiosis, specifically Baritosis. The reaction results in no impairment of ventilatory function. Mild bronchial irritation may occur.

Threshold Limit Values:
- 5 mg/m³  Respirable Dust (OSHA PEL)
- 10 mg/m³  Total Dust (ACGIH)
- 15 mg/m³  Total Dust (OSHA)

Summary of Health Risks:
Product components are practically non-toxic and chemically non-irritating. Not absorbed by the body. Excessive exposure above TLV may give mild pulmonary irritation. Eye contact will result in no specific effects other than general particulate irritation to the eye. Individuals with pre-existing respiratory conditions such as asthma or skin conditions such as dermatitis may be at greater risk for exposure to material.

SECTION VII - First Aid Measures

INHALATION
If high concentrations are inhaled, remove subject to fresh air. Get medical help for any breathing difficulty.

SKIN CONTACT:
Wash skin with mild soap and water. Wash contaminated clothing before reuse.

EYE CONTACT:
Remove contact lenses and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

INGESTION:
Although ingestion is unlikely and not considered a potential route of exposure, if patient is conscious give large quantities of water to induce vomiting. Get medical attention.

Advice to Physicians: Treat symptomatically for lung and eye irritation, if present.
SECTION VIII - Accidental Release/Disposal Considerations

Steps to be taken in case material is accidentally released;
- Respiratory protection - NIOSHA approved respirator.
- Ventilation - Mechanical ventilation to keep exposure below recommended limits.
- Protective gloves - Leather or Rubber Gloves.
- Eye protection - Safety Glasses Goggles or Face Shield
- Skin protection - Use rubber apron if convenient for operation.

Methods for Cleaning Up-
- Protective Equipment - Wear goggles and use NIOSH/MSHA approved respirator or self-contained breathing apparatus (SCBA) and full protective clothing to protect from incapacitating effects of capsaicin exposure.

Procedure to be Followed in Case of Leak or Spill -
Care should be taken to avoid causing dust to become airborne. Sweep up material, place in bag and hold for waste disposal. Ventilate area and wash spill site with water after material pickup is complete.

Waste Disposal Measures: Not considered a hazardous waste as referenced in 40 CFR 261.24 or 261.3.
This material passes the RCRA-TCLP test and may be treated as a non-hazardous waste.

SECTION IX - Precautions for Safe Handling and Use

- Precautions to be taken in storage and handling: Keep tightly closed. Store in a cool dry place.
- Proper disposal of containers; Dispose of in municipal waste in accordance with Federal, State or Local regulations or offer for recycling if appropriate for area.

SECTION X - Transportation Information

- DOT Classification - Class 55
- Proper Shipping Name - Not Regulated
- Hazard Class - Not considered a hazardous material

SECTION XI - Environmental Impact

California: This material does not contain any components listed under California Proposition 65.
Clean Air Act Amendments of 1990 (CAA 40 CFR): No components are listed as hazardous air pollutants. The product is not made with or does it contain any Class 1 or Class 2 ozone depleting substances as defined under the amendments to the act.
Clean Water Act (40 CFR 116): Not listed
Canadian WHMIS - Not a controlled product
CERCLA - Not a hazardous substance as referenced in 40 CFR 302.4. It is not on the list of hazardous substances under the clean water act (40 CFR 116 and 117).

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MSDS - BALL•ISTICS/Max-10 Inert, Page 3 of 3
Material Safety Data Sheet

SECTION 1 - Chemical Product and Company Identification

Manufacturer's Name: Perfect Circle Projectiles, LLC
Street Address: 28101 N Ballard Dr Ste C
City, State, Zip code: Lake Forest, IL 60045-4544
Emergency/Chemtrec Phone Number: 1-800-424-9300
Product Name: Pink Projectile
Part Number 48555
MSDS Reference FN303-2
Synonyms: Pink Ball Marking Liquid
Product class: Propylene Glycol based Pigment Dispersion

Manufactured exclusively for FN Herstal S.A.

SECTION 2 – Composition

82% Propylene Glycol
<9% Dyed Pigment
<4% Water
<5% Clay

SECTION 3 – Hazardous Ingredients

No Known Hazardous Ingredients

SECTION 4 – Physical Data

BOILING RANGE: 300-400 Degrees F
VAPOR DENSITY: 2.62
WEIGHT PER GALLON: 8.9 pounds

SECTION 5 – Fires and Explosion Data

FLAMMABLE PROPERTIES:
Flash Point: 217°
FLAMMABLE LIMITS:
LFL: Not Applicable
UFL: Not Applicable
Extinguishing Media: Water fog, carbon dioxide, foam or dry chemical.
FIRE & EXPLOSION HAZARDS: Will support combustion
FIRE FIGHTING EQUIPMENT: Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing if involved in fire.

SECTION 6 – Health Hazard Data

OVEREXPOSURE ACUTE: Can cause irritation of eyes and skin. Swallowing can cause Gastronomical irritation. Breathing concentrated vapors can cause headache or nausea.

OVEREXPOSURE CHRONIC: The toxicological properties of this product have not been fully investigated. Repeated exposure may present additional hazards.
SECTION 7 – First Aid Procedures:
SKIN CONTACT: Wash with soap and water.
EYE CONTACT: Flush eye with plenty of water for several minutes. If effects occur, see physician.
INHALATION: Provide fresh air and rest. If effects occur, see physician.
INGESTION: Do not induce vomiting. Call physician.

SECTION 8 – Reactivity Data
STABILITY: Stable
INCOMPATIBILITY: Avoid contact with strong acids, strong bases, and strong oxidizers
HAZARDOUS DECOMP PROD: Thermal decomposition may yield oxides of carbon, Sulfur, Nitrogen and other toxic fumes.
POLYSINTERIZATION: Will not occur
CONDITIONS TO AVOID: None

SECTION 9 – Spill or Leak Procedures
SPILLED MATERIAL STEPS: Absorb on inert materials or flush with water.
WASTE DISPOSAL METHOD: Incineration or landfills in accordance with Federal, State and Local regulations.

SECTION 10 – Special Protection Information
RESPIRATOR PROTECTION: None needed if good ventilation is maintained. In confined or poorly ventilated areas where vapor concentrations are encountered, wear NIOSH/MESA approved respirator.
VENTILATION: Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid breathing sanded or blasted dust.
PROTECTIVE GLOVES: Recommended. Impervious type.
EYE PROTECTION: Recommended. Safety goggles with imperforated side shields.
Other Protective Equipment: As required to avoid wetting clothes.

SECTION 11 – Special Precautions
PRECAUTIONS HANDLING: See Below
DOL STORAGE CATEGORY: 3 B
OTHER PRECAUTIONS: Keep container closed when not in use. Do not transfer material to other containers for storage. Store in a cool area. Keep out of the reach of children. Avoid dust formation and static discharges.

SECTION 12 – Other Information
Hazard Rating System
HMIS HEALTH: 2 FIRE: 1 Reactivity: 0 Personal Protection: H

Disclaimer:
This information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the manufacturer be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if manufacturer has been advised of such damages.
United Tactical Systems, LLC

Safety Data Sheet (SDS)

Date Printed: 03/19/2001
Date Updated: 08/11/2015
Version C-10.2

Section 1 – Identification of the substance or mixture and of the supplier

Product Name: PepperBall® 10X Tactical Powder (Shelf Life 3 Years)
Product Use: Incapacitant Projectile Fill (PAVA, capsaicin II, nonivamide)
Manufacturer’s Name: United Tactical Systems, LLC
Street Address: 28101 Ballard Dr., Unit F
City, State, Zip code: Lake Forest, IL 60045 USA
Emergency Phone Number: (877) 887-3773
(858) 638-0236
FAX Number: (858) 638-0781

Section 2 – Hazards Identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitization (category 1), H317
Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statement mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.
P337 + P313 If eye irritation persists: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

Section 3 – Composition / Information on ingredients

<table>
<thead>
<tr>
<th>Active Components:</th>
<th>Capsaicin</th>
<th>CAS # 404-86-4 / 2444-46-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula:</td>
<td>C₁₇H₂₇NO₃</td>
<td></td>
</tr>
<tr>
<td>Synonyms:</td>
<td>Capsaicin II, capsaicinoid, red pepper extract, PAVA, nonivamide</td>
<td></td>
</tr>
<tr>
<td>Certified level:</td>
<td>5.0% +/- 0.02% w/w capsaicin II</td>
<td></td>
</tr>
<tr>
<td>Inert Ingredients:</td>
<td>A proprietary combination of inert carriers and dispersion agents</td>
<td></td>
</tr>
</tbody>
</table>

Section 4 – First Aid Measures

INHALATION:
If breathing is difficult, administer oxygen. Symptoms may include: coughing, sneezing, burning eyes and skin, nausea and possibly vomiting. If high concentrations are inhaled, immediately remove subject to fresh air. Keep person calm. If not breathing, begin artificial respiration. If breathing difficulty persists, seek medical attention.

SKIN CONTACT:
In case of contact, wash skin with soap and water to prevent further exposure. Flush skin with copious amounts of cool water to minimize irritant effect. Wash contaminated clothing before reuse. Do not apply salves or dressing to affected areas.

EYE CONTACT:
Remove contact lenses and flush eyes with copious quantities of cool water. Move patient to fresh air as soon as possible.

INGESTION:
Although ingestion is unlikely and not considered a potential route of exposure, individuals should be treated as having an acute non-specific airway reaction by an appropriate specialist. Do not induce vomiting.

Delayed Effects: Rubefacient effects usually subside within 30 minutes. Cool water or cool circulating air will minimize discomfort.

Advice to Physician/Special Consideration: Inhalation may aggravate or initiate asthmatic episodes. Pre-existing skin disorders may be aggravated by exposure to this material. Treat patient as if acute non-specific upper airway reaction.
Section 5 – Firefighting Measures

5.1 Extinguishing Media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOx)

5.3 Advice for firefighters
Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Further information
No data available

Section 6 – Accidental Release Measures

Steps to be taken in case material is accidentally released:
Respiratory protection: NIOSHA approved respirator
Ventilation: Mechanical ventilation to keep exposure below recommended limits
Protective Gloves: Rubber, PVA, or neoprene
Eye Protection: Safety goggles or face shield
Skin Protection: Use appropriate barrier clothing

Methods for Cleaning Up:
Protective Equipment: Wear goggles and use NIOSH/MSHA approved respirator or self-contained breathing apparatus (SCBA) and full protective clothing to protect from incapacitating effects of capsaicin exposure.

Procedure to be Followed in Case of Leak or Spill:
Evacuate area, sweep up material, place in bag and hold for waste disposal. Care should be taken to avoid causing dust to become airborne. Ventilate area and wash spill site with water after material pickup is complete.

Waste Disposal Measures: Not considered a hazardous waste as referenced in 40 CFR 261.24 or 261.3.

Section 7 – Handling and Storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: 2 – 8 °C
Keep in a dry place.

7.3 Specific end uses(s)
Apart from the uses mentioned in section 1, no other specific uses are stipulated

Section 8 – Exposure Controls / Personal Protection
8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
   Eye/face protection
   Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

   Skin Protection
   Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

   Body Protection
   Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

   Respiratory Protection
   For nuisance exposures, use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

   a) Appearance          Form: powder
   b) Odor                stinging
   c) Odor Threshold      no data available
   d) pH                  no data available
   e) Melting point/freezing point no data available
   f) Initial boiling point/range no data available
   g) Flash point         no data available
   h) Evaporation rate    no data available
   i) Flammability (solid, gas) no data available
   j) Upper/lower flammability or explosive limits no data available
   k) Vapor pressure      no data available
   l) Vapor density       no data available
   m) Relative density    no data available
   n) Water solubility    insoluble
   o) Partition coefficient: no data available
n-octanol/water

p) Auto-ignition temperature no data available
q) Decomposition temperature no data available
r) Viscosity no data available
s) Explosive properties no data available
t) Oxidizing properties no data available

Section 10 – Stability and Reactivity

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

Section 11 – Toxicological Information

Primary Routes of Entry:
   Inhalation
   Skin
   Eyes

User Exposure:
Skin contact with powder may cause temporary acute pain and rubefacient effect.

Carcinogenicity:
None of the components present in this product are listed by IARC, NPT, OSHA, or ACGIH as a carcinogen.

Exposure Guidelines:
PEL: 1000 ppm  8 Hr. TWA  STEL: 1000 ppm  WEEL: 1000 ppm

Section 12 – Ecological Information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available
12.3 Bio-accumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

Section 13 – Disposable Considerations

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

Section 14 – Transport Information

DOT Classification: Class 55
Hazard Class: Not considered a hazardous material

Section 15 – Regulatory Information

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right To Know Components
Nonivamide CAS-No. 2444-46-4

New Jersey Right To Know Components
Nonivamide CAS-No. 2444-46-4

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 – Other information including information on preparation and revision of the SDS

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.  Eye irritation
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H319  Causes serious eye irritation.
H335  May cause respiratory irritation.
Skin Irrit.  Skin irritation
Skin Sens.  Skin sensitization

HMIS Rating
Health Hazard:  2
Chronic Health Hazard:  *
Flammability:  0
Physical Hazard:  0

NFPA Rating
Health Hazard:  2
Fire Hazard:  0
Reactivity Hazard:  0

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1 Identification

- **Product identifier**
  - Trade name: *First Defense® 0.2 Percent MK-3 Stream OC Aerosol*
  - Article number: 5039 (1011715)
- **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
  - **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](image)

- **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.
- **Precautionary statements:**
  - P261  Avoid breathing mist/vapors/spray.

(Cont’d. on page 2)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations


Trade name: First Defense® .2 Percent MK-3 Stream OC Aerosol

(Cont'd. of page 1)

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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
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)

![NFPA rating icon]

Health = 1
Fire = 2
Reactivity = 1

· HMIS-ratings (scale 0 - 4)

![HMIS rating icon]

Health = 1
Fire = 2
Reactivity = 1

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>🔥 Flam. Liq. 2, H225 🔢 Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Oleoresin Capsicum</td>
<td>8023-77-6</td>
<td>🔢 Eye Dam. 1, H318 🔥 Acute Tox. 4, H302; Skin Irrit. 2, H315</td>
</tr>
<tr>
<td>nitrogen</td>
<td>7727-37-9</td>
<td>🔥 Press. Gas, H281</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td></td>
</tr>
</tbody>
</table>

· Additional information:
For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

· Description of first aid measures
· General information: Take affected persons out into the fresh air.
· After inhalation: Supply fresh air; consult doctor in case of complaints.

(Cont'd. on page 3)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: February 22, 2016
Revision: February 22, 2016

Trade name: First Defense® .2 Percent MK-3 Stream OC Aerosol

(Cont'd. of page 2)

· 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.

· Indication of any immediate medical attention and special treatment needed:
  Medical supervision for at least 48 hours.
  If necessary oxygen respiration treatment.

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.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures:
  For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
  For large spills, wear protective clothing.
  Ensure adequate ventilation.

· Environmental precautions: No special measures required.

· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Send for recovery or disposal in suitable receptacles.

(Cont'd. on page 4)
Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: February 22, 2016
Revision: February 22, 2016

Trade name: First Defense® .2 Percent MK-3 Stream OC Aerosol

(Cont'd. of page 3)

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:

<table>
<thead>
<tr>
<th>64-17-5 ethanol</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 1900 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 1900 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Short-term value: 1880 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Short-term value: 1000 ppm</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 1.900 mg/m³, 1.000 ppm</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 1000 ppm</td>
</tr>
<tr>
<td>A3</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>7727-37-9 nitrogen</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV (USA)</td>
<td>withdrawn TLV, see App. F; simple asphyxiant</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Simple asphyxiant</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Asfixiante simple</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>57-55-6 Propylene Glycol</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEL (USA)</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
</tbody>
</table>

(Cont'd. on page 5)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: February 22, 2016
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Trade name: First Defense® .2 Percent MK-3 Stream OC Aerosol

EV (Canada) Long-term value: 155* 10** mg/m³, 50* ppm
*vapour and aerosol;**aerosol only

- **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.

---

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.
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: February 22, 2016
Revision: February 22, 2016

**Trade name:** First Defense® .2 Percent MK-3 Stream OC Aerosol

---

**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.
- **Conditions to avoid:** No relevant information available.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:** Possible in traces.

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(Cont'd. on page 7)

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(Cont'd. of page 5)
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      - 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.
  - IARC (International Agency for Research on Cancer):
    - 64-17-5 ethanol 1
  - 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.
  - Bioaccumulative potential: No relevant information available.
  - Mobility in soil: No relevant information available.
  - Additional ecological information
    - General notes:
      - Negative ecological effects are, according to the current state of knowledge, not expected.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Trade name: First Defense® .2 Percent MK-3 Stream OC Aerosol

- Other adverse effects: 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

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT, ADR, IMDG, IATA</td>
<td>UN1950</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Aerosols, non-flammable</td>
</tr>
<tr>
<td>DOT</td>
<td>1950 AEROSOLS</td>
</tr>
<tr>
<td>ADR</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>IMDG</td>
<td>AEROSOLS, non-flammable</td>
</tr>
<tr>
<td>IATA</td>
<td></td>
</tr>
</tbody>
</table>

- Transport hazard class(es)
  - DOT
    - Class: 2.2
    - Label: 2.2
  - ADR
    - Class: 2.2 5A
    - Label: 2.2

(Cont'd. on page 9)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: February 22, 2016
Revision: February 22, 2016

Trade name: First Defense® .2 Percent MK-3 Stream OC Aerosol

<table>
<thead>
<tr>
<th>IMDG, IATA</th>
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<tbody>
<tr>
<td>Class</td>
</tr>
<tr>
<td>Label</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Packing group</th>
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<tr>
<td>DOT, ADR, IMDG, IATA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental hazards</th>
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<tr>
<td>Marine pollutant:</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger code (Kemler):</td>
</tr>
<tr>
<td>EMS Number:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport/Additional information:</th>
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</thead>
<tbody>
<tr>
<td>DOT</td>
</tr>
<tr>
<td>Quantity limitations</td>
</tr>
<tr>
<td>On passenger aircraft/rail:</td>
</tr>
<tr>
<td>On cargo aircraft only:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excepted quantities (EQ)</td>
</tr>
<tr>
<td>Code: E0</td>
</tr>
<tr>
<td>Not permitted as Excepted Quantity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excepted quantities (EQ)</td>
</tr>
<tr>
<td>Code: E0</td>
</tr>
<tr>
<td>Not permitted as Excepted Quantity</td>
</tr>
</tbody>
</table>

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - United States (USA)
  - SARA

<table>
<thead>
<tr>
<th>Section 355 (extremely hazardous substances):</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients are listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 313 (Specific toxic chemical listings):</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients are listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TSCA (Toxic Substances Control Act)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All ingredients are listed.</td>
</tr>
</tbody>
</table>
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: February 22, 2016
Revision: February 22, 2016

Trade name: First Defense® .2 Percent MK-3 Stream OC Aerosol

- 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):
  64-17-5 | ethanol 1

- NIOSH-Ca (National Institute for Occupational Safety and Health):
  None of the ingredients are listed.

- Canada
  - 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

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 February 22, 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
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  ACGIH: American Conference of Governmental Industrial Hygienists
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  DNEL: Derived No-Effect Level (REACH)
Trade name: First Defense® 2 Percent MK-3 Stream OC Aerosol

PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
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 Irrit. 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
SDS Prepared by:
ChemTel Inc.
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
SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Identifier
  - Trade name: MK9 CS Mace Fogger
  - Article number: 9020
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  - No further relevant information available.
- 1.3 Details of the supplier of the Safety Data Sheet
  - Manufacturer/Supplier:
    Safariland, LLC
    13386 International Parkway
    Jacksonville, FL 32218
  - Customer Care (800) 347-1200
  - Further information obtainable from: Customer Care Department
- 1.4 Emergency telephone number:
  - ChemTel Inc.
  - (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008
    The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.
    - health hazard
      Resp. Sens. 1  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
      - environment
        Aquatic Chronic 2  H411  Toxic to aquatic life with long lasting effects.
      - Xn; Sensitising
        Skin Irrit. 2  H315  Causes skin irritation.
        Eye Irrit. 2  H319  Causes serious eye irritation.
        Skin Sens. 1  H317  May cause an allergic skin reaction.
        STOT SE 3  H335  May cause respiratory irritation.
        H229  Pressurised container: May burst if heated.
        Asp. Tox. 1  H304  May be fatal if swallowed and enters airways.
  - Classification according to Directive 67/548/EEC or Directive 1999/45/EC
    R42/43:  May cause sensitisation by inhalation and skin contact.

(Contd. on page 2)
Trade name: MK9 CS Mace Fogger

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

- N: Dangerous for the environment
  R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  R67: Vapours may cause drowsiness and dizziness.

**Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurized container.

**Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

**2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.
The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**

  ![Pictogram](image)

  GHS07 GHS08 GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  d-Limonene (CLP classification)
  [[2-chlorophenyl)methylene]malononitrile

- **Hazard statements**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.
  H229 Pressurised container: May burst if heated.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H344 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  H317 May cause an allergic skin reaction.
  H335 May cause respiratory irritation.
  H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P251 Pressurized container: Do not pierce or burn, even after use.
P285 In case of inadequate ventilation wear respiratory protection.
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Trade name: MK9 CS Mace Fogger

P280  Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:
  Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
  23,2 % by mass of the contents are flammable
- Hazard description:
- WHMIS-symbols:
  D1B - Toxic material causing immediate and serious toxic effects
  D2A - Very toxic material causing other toxic effects

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

- HMIS-ratings (scale 0 - 4)
  HEALTH 1 Health = 1
  FIRE 0 Fire = 0
  REACTIVITY 1 Reactivity = 1
  * - Indicates a long term health hazard from repeated or prolonged exposures.

- HMIS Long Term Health Hazard Substances
  None of the ingredients is listed.

- 2.3 Other hazards
- Results of PBT and vPvB assessment
  PBT: Not applicable.
  vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
Trade name: MK9 CS Mace Fogger

**Dangerous components:**

| CAS: 811-97-2 | Norflurane | Press. Gas, H280 | 50-100% |
| EINECS: 212-377-0 |

| CAS: 5989-27-5 | d-Limonene (CLP classification) |
| EINECS: 227-813-5 |
| Index number: 601-029-00-7 |
| Xn R65; Xi R38; Xi R43; F R10; N R50/53 |
| Flam. Liq. 3, H226 |
| Asp. Tox. 1, H304 |
| Aquatic Acute 1, H400; Aquatic Chronic 1, H410 |
| Skin Irrit. 2, H315; Skin Sens. 1, H317 |
| 10-25% |

| CAS: 78-92-2 | butanol |
| EINECS: 201-158-5 |
| Index number: 603-127-00-5 |
| Xr R36/37 |
| R10-67 |
| Flam. Liq. 3, H226 |
| Eye Irrit. 2, H319; STOT SE 3, H335-H336 |
| 10-25% |

| CAS: 34590-94-8 | (2-methoxymethylene)propanol substance with a Community workplace exposure limit |
| EINECS: 252-102-4 |
| 2,5-10% |

| CAS: 2698-41-1 | [(2-chlorophenyl)methylene]malononitrile |
| EINECS: 220-278-9 |
| T R25; Xn R42/43; N R50 |
| Acute Tox. 3, H301 |
| Resp. Sens. 1, H334 |
| Aquatic Acute 1, H400 |
| Skin Sens. 1, H317 |
| ≤ 2,5% |

**Additional information:** For the wording of the listed risk phrases refer to section 16.

---

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:**
  Take affected persons out into the fresh air.
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
  Supply fresh air; consult doctor in case of complaints.
  Provide oxygen treatment if affected person has difficulty breathing.
  In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
- **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:**
  Rinse out mouth and then drink plenty of water.
  Do not induce vomiting; call for medical help immediately.
  A person vomiting while laying on their back should be turned onto their side.

(Contd. on page 5)
Trade name: MK9 CS Mace Fugger

4.2 Most important symptoms and effects, both acute and delayed
Asthma attacks
Headache
Breathing difficulty
Dizziness
Coughing
Allergic reactions
Irritant to skin and mucous membranes.
Irritant to eyes.

Hazards
Danger of pulmonary oedema.
Danger of impaired breathing.
Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed
May produce a lachrymatory / laryngospastic effect.
If swallowed or in case of vomiting, danger of entering the lungs.
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
Contains d-Limonene (CLP classification), [(2-chlorophenyl)methylene]malononitrile. May produce an
allergic reaction.
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.
If necessary oxygen respiration treatment.
Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
Danger of receptacles bursting because of high vapour pressure when heated.

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information
Cool endangered receptacles with water spray.
In case of fire involving large quantities, evacuate area and fight fire from from the upwind side.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use respiratory protective device against the effects of fumes/dust/aerosol.
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.
Trade name: MK9 CS Mace Fogger

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Isolate area and prevent access.

6.2 Environmental precautions:
Do not allow to enter sewers/surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Use only in well ventilated areas.
Do not spray on flame or other ignition sources. No smoking.

Information about fire and explosion protection:
Keep respiratory protective device available.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e.
electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.

7.2 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.
Provide ventilation for receptacles.
Avoid storage near extreme heat, ignition sources or open flame.

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.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.
### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Limit Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>811-97-2</td>
<td>Norflurane</td>
<td>Long-term value: 1000 ppm</td>
</tr>
<tr>
<td>78-92-2</td>
<td>butanol</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL (USA) Long-term value: 450 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REL (USA) Short-term value: 455 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REL (USA) Long-term value: 305 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TLV (USA) Long-term value: 300 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EL (Canada) Long-term value: 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EV (Canada) Short-term value: 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EV (Canada) Long-term value: 100 ppm</td>
</tr>
<tr>
<td>34590-94-8</td>
<td>(2-methoxymethylethoxy)propanol</td>
<td>IOELV (EU) Long-term value: 308 mg/m³, 50 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL (USA) Long-term value: 600 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REL (USA) Short-term value: 900 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REL (USA) Long-term value: 600 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
</tr>
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<td></td>
<td></td>
<td>TLV (USA) Short-term value: 909 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TLV (USA) Long-term value: 606 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EL (Canada) Short-term value: 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EL (Canada) Long-term value: 100 ppm</td>
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<tr>
<td></td>
<td></td>
<td>Skin</td>
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<td></td>
<td>EV (Canada) Short-term value: 910 mg/m³, 150 ppm</td>
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<td>EV (Canada) Long-term value: 605 mg/m³, 100 ppm</td>
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<tr>
<td>2698-41-1</td>
<td>[(2-chlorophenyl)methylene]malononitrile</td>
<td>PEL (USA) Long-term value: 0,4 mg/m³, 0,05 ppm</td>
</tr>
<tr>
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<td></td>
<td>REL (USA) Ceiling limit: 0,4 mg/m³, 0,05 ppm</td>
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<tr>
<td></td>
<td></td>
<td>Skin</td>
</tr>
<tr>
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<td>TLV (USA) Ceiling limit: 0,39 mg/m³, 0,05 ppm</td>
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<td></td>
<td></td>
<td>Skin</td>
</tr>
<tr>
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<td>EL (Canada) Ceiling limit: 0,05 ppm</td>
</tr>
<tr>
<td></td>
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<td>Skin</td>
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<td></td>
<td></td>
<td>EV (Canada) Ceiling limit: 0,4 mg/m³, 0,05 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
</tr>
</tbody>
</table>

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information**: The lists valid during the making were used as basis.
8.2 Exposure controls

- Personal protective equipment:
  - General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
    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.
  - Respiratory protection:
    Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

- Protection of hands:
  - Protective gloves
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
  - 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:
    Contact lenses should not be worn.

- Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment
  No further relevant information available.
- Risk management measures
  See Section 7 for additional information.
  No further relevant information available.
### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
  - **Appearance:**
    - Form: Aerosol
    - Colour: According to product specification
    - Odour: Pungent
    - Odour threshold: Not determined.
    - pH-value: Not determined.
  - **Change in condition**
    - Melting point/Melting range: Not Determined.
    - Boiling point/Boiling range: Not applicable, as aerosol.
  - **Flash point:** Not applicable, as aerosol.
  - **Flammability (solid, gaseous):** Not applicable.
  - **Auto/Self-ignition temperature:** Not determined.
  - **Decomposition temperature:** Not determined.
  - **Self-igniting:** Product is not self-igniting.
  - **Danger of explosion:** Not determined.
  - **Explosion limits:**
    - Lower: Not determined.
    - Upper: Not determined.
  - **Vapour pressure:** Not determined.
  - **Density:** Not determined.
  - **Relative density**
  - **Vapour density:** Not determined.
  - **Evaporation rate**
    - Not applicable.
  - **Solubility in / Miscibility with water:** Fully miscible.
  - **Partition coefficient (n-octanol/water):** Not determined.
  - **Viscosity:**
    - Dynamic: Not determined.
    - Kinematic: Not determined.
- **9.2 Other information**
  - No further relevant information available.
SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided:
    No decomposition if used and stored according to specifications.
    Danger of receptacles bursting because of high vapour pressure when heated.
- 10.3 Possibility of hazardous reactions
  Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
  Reacts with strong acids and oxidizing agents.
- 10.4 Conditions to avoid
  No further relevant information available.
- 10.5 Incompatible materials
  No further relevant information available.
- 10.6 Hazardous decomposition products:
  Carbon monoxide and carbon dioxide
  Danger of toxic fluorine based pyrolysis products.
  Chlorine compounds

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values relevant for classification:
    | Compound                        | Oral LD50 | 4400 mg/kg (rat) |
    | 5989-27-5 d-Limonene (CLP classification) |
    | 2698-41-1 [(2-chlorophenyl)methylene]malononitrile |
    | Oral LD50 | 178 mg/kg (rat) |
  - Primary irritant effect:
    - on the skin: Irritant to skin and mucous membranes.
    - on the eye: Irritating effect.
  - Sensitization:
    Sensitization possible through inhalation.
    Sensitization possible through skin contact.
  - Additional toxicological information:
    The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    Harmful
    Irritant
    Danger through skin adsorption.
    inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
    Toxic and/or corrosive effects may be delayed up to 24 hours.
    May be harmful if inhaled.
  - Acute effects (acute toxicity, irritation and corrosivity): Vapours have narcotic effect.
  - Sensitisation: Sensitization possible by inhalation and/or dermal contact.

(Contd. on page 11)
· Repeated dose toxicity:
May cause damage to organs through prolonged or repeated exposure.
Repeated exposures may result in skin and/or respiratory sensitivity.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:
  Toxic for aquatic organisms

<table>
<thead>
<tr>
<th>2698-41-1 [(2-chlorophenyl)methylene]malononitrile</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50  0,2-0,3 mg/kg (Onchorhyncus mykiss)</td>
</tr>
<tr>
<td>96 H</td>
</tr>
</tbody>
</table>

· 12.2 Persistence and degradability No further relevant information available.
· 12.3 Bioaccumulative potential No further relevant information available.
· 12.4 Mobility in soil No further relevant information available.
· Ecotoxic effects:
· Remark: Toxic for fish
· Additional ecological information:
· General notes:
  Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
  Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  Danger to drinking water if even extremely small quantities leak into the ground.
  Also poisonous for fish and plankton in water bodies.
  Toxic for aquatic organisms
  Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
· 12.5 Results of PBT and vPvB assessment
  PBT: Not applicable.
  vPvB: Not applicable.
· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
· Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
  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 packaging:
· Recommendation: Disposal must be made according to official regulations.
SECTION 14: Transport information

- **14.1 UN-Number**
  - DOT, ADR, IMDG, IATA
  - DOT: AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS
  - ADR: 1950 AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS
  - IMDG: AEROSOLS, AEROSOLS, TOXIC, TEAR GAS DEVICES, MARINE POLLUTANT
  - IATA: AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS

- **UN1950**

- **14.2 UN proper shipping name**
  - DOT
  - AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS
  - ADR: 1950 AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS
  - IMDG: AEROSOLS, AEROSOLS, TOXIC, TEAR GAS DEVICES, MARINE POLLUTANT
  - IATA: AEROSOLS, TOXIC, TEAR GAS DEVICES, ENVIRONMENTALLY HAZARDOUS

- **14.3 Transport hazard class(es)**
  - DOT
    - Class: 2.2
    - Label: 2.2+6.1
  - ADR
    - Class: 2.2 5T
    - Label: 2.2+6.1
  - IMDG
    - Class: 2.2
    - Label: 2.2+6.1
  - IATA
    - Class: 2.2
    - Label: 2.2+6.1

(Contd. on page 13)
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date: September 3, 2014
Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

14.4 Packing group
- DOT, ADR, IMDG, IATA: Not Applicable
- 14.5 Environmental hazards:
  - Marine pollutant: Yes
    - Symbol (fish and tree)
- 14.6 Special precautions for user: Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

Transport/Additional information:
- ADR
  - Limited quantities (LQ): 120 ml
  - Excepted quantities (EQ): Code: E0
    - Not permitted as Excepted Quantity
- IMDG
  - Limited quantities (LQ): 1L
  - Excepted quantities (EQ): Code: E0
    - Not permitted as Excepted Quantity
- UN "Model Regulation": UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.2 (6.1)

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA
  - Section 355 (extremely hazardous substances):
    - None of the ingredients is listed.
  - Section 313 (Specific toxic chemical listings):
    - 78-92-2: butanol
- TSCA (Toxic Substances Control Act):
  - All ingredients are listed.
- Proposition 65 (California):
  - Chemicals known to cause cancer:
    - None of the ingredients is listed.
  - 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 is listed.

(Contd. on page 14)
Trade name: MK9 CS Mace Fogger

- Chemicals known to cause developmental toxicity:
  None of the ingredients is listed.

- Carcinogenic Categories

- EPA (Environmental Protection Agency)
  None of the ingredients is listed.

- IARC (International Agency for Research on Cancer)
  None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)
  2698-41-1 [(2-chlorophenyl)methylene]malonitrile A4

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  None of the ingredients is listed.

- Canada

  - Canadian Domestic Substances List (DSL)
    811-97-2 Norflurane
    5989-27-5 d-Limonene (CLP classification)
    78-92-2 butanol
    34590-94-8 (2-methoxymethylethoxy)propanol

  - Canadian Ingredient Disclosure list (limit 0.1%)
    None of the ingredients is listed.

  - Canadian Ingredient Disclosure list (limit 1%)
    5989-27-5 d-Limonene (CLP classification)
    78-92-2 butanol
    34590-94-8 (2-methoxymethylethoxy)propanol

- Other regulations, limitations and prohibitive regulations
  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- Substances of very high concern (SVHC) according to REACH, Article 57
  None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

- Relevant phrases
  H226 Flammable liquid and vapour.
  H280 Contains gas under pressure; may explode if heated.
  H301 Toxic if swallowed.
  H304 May be fatal if swallowed and enters airways.
  H315 Causes skin irritation.
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date: September 3, 2014
Revision: September 3, 2014

Trade name: MK9 CS Mace Fogger

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.
R25 Toxic if swallowed.
R36/37 Irritating to eyes and respiratory system.
R38 Irritating to skin.
R42/43 May cause sensitisation by inhalation and skin contact.
R43 May cause sensitisation by skin contact.
R50 Very toxic to aquatic organisms.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent:
: Flammable aerosols, Hazard Category 3
Press. Gas: Gases under pressure: Compressed gas
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Sources
SDS Prepared by:
ChemTel Inc.
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

(Contd. of page 14)
**Common Name:** SABRE 5.0 MK-46, MK-60 REFILL  
**Manufacturer:** SECURITY EQUIPMENT  
**SDS Revision Date:** 1/1/2013  
**SDS Format:** ANSI-OSHA  

**Item Number(s):** 31HH07  
**Manufacturer Model Number(s):**

**SDS Table of Contents**  
Click the desired link below to jump directly to that section in the SDS.

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- [SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY](#)  
- [SECTION 3 - HAZARD IDENTIFICATION](#)  
- [SECTION 4 - FIRST AID MEASURES](#)  
- [SECTION 5 - FIRE-FIGHTING MEASURES](#)  
- [SECTION 6 - ACCIDENTAL RELEASE MEASURES](#)  
- [SECTION 7 - HANDLING AND STORAGE](#)  
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- [SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES](#)  
- [SECTION 10 - STABILITY AND REACTIVITY](#)  
- [SECTION 11 - TOXICOLOGICAL INFORMATION](#)  
- [SECTION 12 - ECOLOGICAL INFORMATION](#)  
- [SECTION 13 - DISPOSAL CONSIDERATIONS](#)  
- [SECTION 14 - TRANSPORT INFORMATION](#)  
- [SECTION 15 - REGULATORY INFORMATION](#)  
- [SECTION 16 - OTHER INFORMATION](#)

**MATERIAL SAFETY DATA SHEET**

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD, 29 CFR 1910. 1200. STANDARD MUST BE REVIEWED FOR SPECIFIC REQUIREMENTS.

QUICK IDENTIFIER: SABRE 5.0 MK-46 & 60 REFILL

1/1/2013

**SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

MANUFACTURER'S NAME: SECURITY EQUIPMENT CORPORATION  

ADDRESS: 747 SUN PARK DRIVE  

CITY, STATE, ZIP: FENTON, MO 63026  

EMERGENCY PHONE NUMBER: 800-325-9568  

OTHER CALLS: 636-343-0200  

FAX NUMBER: 636-343-1318
CHEMICAL NAME: OLEORESIN CAPSICUM (RED PEPPER)

CHEMICAL FAMILY: IRRITANT AGENT

TRADE NAME: SABRE 5.0 MK-46, MK-60 REFILL

COMMON NAME: PEPPER SPRAY, OC SPRAY

MODEL #'S: 86H2046-R, 86H2060-R

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

<table>
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<tr>
<th>HAZARDOUS COMPONENT(S)</th>
<th>CONTENT(S)</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>CARCINIGEN</th>
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<tbody>
<tr>
<td>OLEORESIN CAPSICUM</td>
<td>5%</td>
<td>N/A</td>
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<td>NO</td>
</tr>
<tr>
<td>SCOVILLE HEAT UNITS</td>
<td>2,000,000</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
<tr>
<td>MAJOR CAPSAICINOIDS</td>
<td>0.67%</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
</tbody>
</table>

CAPSAICIN
CAS: #404-86-4

NORDIHYDROCAPSAICIN
CAS: #19408-84-5

DIHYDROCAPSAICIN
CAS: #28789-35

MAJOR CAPSAICINOIDS ARE DETERMINED VIA A.O.A.C. METHOD 995.03.


SECTION 3 - HAZARD IDENTIFICATION

SEVERE SKIN, EYE, RESPIRATORY & DIGESTIVE IRRITANT. KEEP OUT OF THE REACH OF CHILDREN. DO NOT PUNCTURE OR INCINERATE CANISTER. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F. DO NOT USE AFTER EXPIRATION DATE. CONTENTS ARE DANGEROUS, USE WITH CARE.

HMIS RATINGS:
HEALTH 2
FIRE 1
REACTIVITY 0

SIGNS & SYMPTOMS OF EXPOSURE:
INGREDIENTS CAUSE IRRITATION THROUGH ALL ROUTES OF ENTRY.

EYE:
LIQUID OR VAPORS MAY CAUSE REDNESS, BURNING, TEARING, SWELLING AND/OR PAIN.

SKIN:
FREQUENT OR REPEATED CONTACT WITH SKIN MAY CAUSE BURNING, REDNESS OR SKIN IRRITATION AND Dermatitis.

INGESTION:
INGESTION MAY CAUSE IRRITATION TO THE MOUTH, THROAT AND STOMACHE, AS WELL AS NAUSEA, VOMITING, AND/OR DIARRHEA.
INHALATION: MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT AS COUGHING, SNEEZING, GAGGING, CHEST TIGHTNESS AND IRRITATION TO THE THROAT AND LUNGS.

MEDICAL CONDITIONS AGRAVATED: MAY CAUSE MORE SEVERE, TEMPORARY, EFFECTS ON THOSE PERSONS WHO ARE ASTHMATICS OR SUFFER FROM EMPHYSEMA.

CARCINOGEN DATA: NONE OF THE INGREDIENTS IN THIS PRODUCT ARE LISTED WITH OSHA, IARC OR NTP AS CACINOGENIC.

SECTION 4 - FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES:
REMOVE VICTIM FROM CONTAMINATED AREA AND REMOVE CONTAMINATED CLOTHING. PROVIDE FRESH AIR, IRRIGATE WITH COPIOUS AMOUNTS OF COOL WATER. OBTAIN MEDICAL ADVICE IF SYMPTOMS PERSIST.

ROUTES OF ENTRY:

1. INHALATION:
REMOVE FROM CONTAMINATED AREA IMMEDIATE. PROVIDE FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF THE VICTIM IS NOT BREATHING, ADMINISTER CPR. SEEK IMMEDIATE MEDICAL ATTENTION.

2. EYES:
ONLY EXPOSED SUBJECT OR EMS SHOULD REMOVE SUBJECT'S CONTACT LENSES. IRRIGATE WITH COOL WATER FOR AT LEAST 15 MINUTES, OR UNTIL RELIEVED. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

3. SKIN:
FLUSH WITH COOL WATER FOR AT LEAST 15 MINUTES. WASH WITH MILD SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

4. INGESTION:
DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS AND NOT CONVULSING, RINSE MOUTH WITH WATER. INGEST MILK OR WATER. CALL 800-535-5053 OR OBTAIN MEDICAL ADVICE IMMEDIATELY. IF VICTIM IS CONVULSING OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH, ENSURE THE VICTIM'S AIRWAY IS OPEN AND LAY THE VICTIM ON HIS/HER SIDE WITH THE HEAD LOWER THAN THE BODY. IMMEDIATELY TRANSPORT THE VICTIM TO A HOSPITAL.

SECTION 5 - FIRE-FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION 16 CFR 1500.45:
NON-FLAMMABLE; ELECTRONIC IMMOBILIZATION DEVICE COMPATIBLE

FLASH POINT: NA

AUTO-IGNITION TEMPERATURE: NA

EXTINGUISHING MEDIA: HALON, CARBON DIOXIDE, DRY CHEMICAL OR WATER

SPECIAL FIRE FIGHTING PROCEDURES:
WEAR RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
SMOKE WOULD BE IRRITATING TO EYES AND MUCOUS MEMBRANES. CONTAINERS MAY BURST IN THE HEAT OF A FIRE.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
STEPS TO FOLLOW IF MATERIAL IS SPILLED OR RELEASED:
WIPE UP SMALL SPILLS WITH ABSORBENT MATERIAL. WITH LARGE SPILLS, USE
RESPIRATORY EQUIPMENT, TO AVOID IRRITATION, AND COLLECT ABSORBENT
MATERIALS.

IF INSIDE:
VENTILATE AREA AND AFTER ABSORBENT PROCESS, WASH AREA WITH SOAP AND
COLD WATER

IF OUTSIDE: STAY UPWIND

WASTE DISPOSAL METHOD:
DISPOSE OF IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:
STORE UPRIGHT IN A COOL, DRY AREA. AVOID DIRECT LIGHT AND HEAT.
DO NOT EXPOSE TO TEMPERATURES OVER 120 DEG. F / 50 DEG. C.
DO NOT PUNCTURE OR INCINERATE CONTAINER.

OTHER PRECAUTIONS:
ASSURE CAN IS IN A SECURE PLACE TO PREVENT ACCIDENTAL RUPTURE.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

RESPIRATORY PROTECTION:
NOT NORMALLY REQUIRED IN WELL-VENTILATED AREAS, HOWEVER, NIOSH APPROVED
RESPIRATORY PROTECTION MAY BE REQUIRED WHEN THE MATERIAL IS USED IN
CONFINED AREAS. AVOID OVEREXPOSURE FOR LONG PERIODS IN ENCLOSED AREAS.

VENTILATION: YES

PROTECTIVE GLOVES: SUGGESTED (NOT REQUIRED)

EYE PROTECTION:
YES. EXPOSURE WITHOUT PROTECTION IN TRAINING ENVIRONMENT IS ACCEPTABLE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NOT REQUIRED

WORK/Hygienic PRACTICES:
AVOID ABSORPTION OF PRODUCT ON CLOTHING. IF ABSORBED IN CLOTHING, REMOVE
AND WASH CLOTHES AT ONCE. DO NOT EAT, DRINK, OR SMOKE WHILE HANDLING
PRODUCT.

ENGINEERING CONTROLS:
PROVIDE VENTILATION IF WORKING IN CONFINED AREAS.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE & ODOR: RED/ORANGE IN COLOR. ODOR IS PUNGENT

PHYSICAL STATE: LIQUID

BOILING POINT: 100 DEG. C (212 DEG. F)

SPECIFIC GRAVITY (H20 = 1): APPROX. 1.0 @ 20 DEG. C

SOLUBILITY IN WATER: SOLUBLE
SECTION 10 - STABILITY AND REACTIVITY

STABILITY:
UNSTABLE ( )
STABLE (X)

CONDITIONS TO AVOID:
INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDOUS POLYMERIZATION:
MAY OCCUR ( )
WILL NOT OCCUR (X)

CONDITIONS TO AVOID:
HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 11 - TOXICOLOGICAL INFORMATION

STANDARD DRAIZE TEST: SKIN, RABBIT, 500 MG
SEVERITY: SLIGHTLY IRRITATING

STANDARD DRAIZE TEST: EYE, RABBIT, 100 MG
SEVERITY: MILDLY IRRITATING

ACUTE INHALATION LC50 (RAT): >100.5 MG/L

SECTION 12 - ECOLOGICAL INFORMATION

THIS PRODUCT HAS NOT BEEN TESTED FOR ENVIRONMENTAL EFFECTS.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:
CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS EVACUATE CONTENTS IN A SAFE AREA, & DISPOSE OF CONTAINER.

SECTION 14 - TRANSPORT INFORMATION

DOT HM-181 INFORMATION:

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INTERNATIONAL TRANSPORTATION REGULATIONS:

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<td>PACKAGING GROUP</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>LABEL(S) REQUIRED</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
</tbody>
</table>

SECTION 15 - REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT:
THIS PRODUCT IS IN COMPLIANCE WITH THE U.S. TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY REQUIREMENTS.

SARA TITLE III, SECTION 313: NOT LISTED

CLEAN AIR ACT (CAA): NOT LISTED

CLEAN WATER ACT (CWA): NOT LISTED

CALIFORNIA PROPOSITION 65: NOT LISTED

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEMS (WHMIS): NOT LISTED

SECTION 16 - OTHER INFORMATION

FORMAT AND PREPARATION COMPLIES WITH ANSI Z400.1-1993

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United Tactical Systems, LLC

Safety Data Sheet (SDS)

Date Printed: 04/21/2010
Date Updated: 11/02/2016

Section 1 – Identification of the substance or mixture and of the supplier

Product Name: Clear Impact Projectile
Product Number: 48554
MSDS Reference: FN303-1
Product Class: Propylene Glycol based Liquid.
Product Use: Clear Ball Marking Liquid. Manufactured exclusively for FN Herstal S.A.
Manufacturer’s Name: United Tactical Systems, LLC
Street Address: 28101 Ballard Drive, Unit F
City, State, Zip code: Lake Forest, IL 60045
Emergency Phone Number: (800) 424 9300
FAX Number: (847) 367-8980

Section 2 – Hazards Identification

No Known Hazardous Ingredients.

Section 3 – Composition / Information on ingredients

>99% Propylene Glycol     CAS # 57-55-6

Section 4 – First Aid Measures

Skin Contact: Wash with soap and water.
Eye Contact: Flush eye with plenty of water for several minutes. If effects occur, see physician.
Inhalation: Provide fresh air and rest. If effects occur, see physician.
Ingestion: Do not induce vomiting. Call physician.

Section 5 – Firefighting Measures

Flash Point: 217F
Extinguishing Media: Water fog, dry chemical, carbon dioxide, or foam.
Unusual Fire Hazards: Will support combustion.
Fire Fighting Procedures: Containers may rupture when exposed to extreme heat. Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing if involved in fire.
Flammable Limits: LFL: Not Applicable. UFL: Not Applicable.
Section 6 – Accidental Release Measures

Spilled Material Steps: Absorb on inert materials or flush with water.

Section 7 – Handling and Storage

DOL Storage Category: 3 B

Other Precautions: Keep container closed when not in use. Do not transfer material to other containers for storage. Store in a cool area. Keep out of the reach of children. Avoid dust formation and static discharges.

Section 8 – Exposure Controls / Personal Protection

Respiratory Protection: None needed if good ventilation is maintained. In confined or poorly ventilated areas where vapor concentrations are encountered, wear NIOSH/MESA approved respirator.

Ventilation: Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid breathing sanded or blasted dust.

Protective Gloves: Recommended. Impervious type.

Eye Protection: Recommended. Safety goggles with imperforated side shields.

Other Protective Equipment: As required to avoid wetting clothes.

Section 9 – Physical and Chemical Properties

Boiling Range: 300-400 F

Vapor Density: 2.62

Weight per Gallon: 8.9 pounds

Section 10 – Stability and Reactivity

Stability: Stable.

Incompatibility: Avoid contact with strong acids, strong bases, and strong oxidizers

Hazardous Decomp. Prod: Thermal decomposition may yield oxides of carbon, and other toxic fumes.

Polymerization: Will not occur.

Conditions to Avoid: None.

Section 11 – Toxicological Information

Overexposure Acute: Can cause irritation of eyes and skin. Swallowing can cause Gastronomical irritation. Breathing concentrated vapors can cause headache or nausea.

Overexposure chronic: The toxicological properties of this product have not been fully investigated. Repeated exposure may present additional hazards.
Section 12 – Ecological Information

Section 13 – Disposable Considerations

Waste Disposal Method: Incineration or land fill in accordance with Federal, State and Local regulations.

Section 14 – Transport Information

Section 15 – Regulatory Information

Section 16 – Other information including information on preparation and revision of the SDS

Hazard Rating System
HMIS
Health: 2
Fire: 1
Reactivity: 0
Personal Protection: H

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Section 1 – Identification of the substance or mixture and of the supplier

Product Name: PAVA Projectile
Part Number: 48600
MSDS Reference: FN303-5
Product Use: Incapacitant Projectile Fill. Inert ingredients with (PAVA, capsaicin II, nonivamide). Manufactured exclusively for FN Herstal S.A.
Manufacturer’s Name: United Tactical Systems, LLC
Street Address: 28101 Ballard Drive, Unit F
City, State, Zip code: Lake Forest, IL 60045
Emergency Phone Number: (800) 424 9300
FAX Number: (847) 367-8980

Section 2 – Hazards Identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitization (category 1), H317
Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statement mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.
P337 + P313 If eye irritation persists: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

Section 3 – Composition / Information on ingredients

<table>
<thead>
<tr>
<th>Active Components:</th>
<th>Capsaicin</th>
<th>CAS # 404-86-4 / 2444-46-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula:</td>
<td>C17H27NO3</td>
<td></td>
</tr>
<tr>
<td>Synonyms:</td>
<td>Capsaicin II, capsaicinoid, red pepper extract, PAVA, nonivamide</td>
<td></td>
</tr>
<tr>
<td>Certified level:</td>
<td>0.5% +/- 0.02% w/w capsaicin II</td>
<td></td>
</tr>
<tr>
<td>Inert Ingredients:</td>
<td>9.5 % w/w inert carriers and dispersion agents (proprietary combination)</td>
<td></td>
</tr>
</tbody>
</table>

Section 4 – First Aid Measures

INHALATION:
If breathing is difficult, administer oxygen. Symptoms may include: coughing, sneezing, burning eyes and skin, nausea and possibly vomiting. If high concentrations are inhaled, immediately remove subject to fresh air. Keep person calm. If not breathing, begin artificial respiration. If breathing difficulty persists, seek medical attention.

SKIN CONTACT:
In case of contact, wash skin with soap and water to prevent further exposure. Flush skin with copious amounts of cool water to minimize irritant effect. Wash contaminated clothing before reuse. Do not apply salves or dressing to affected areas.

EYE CONTACT:
Remove contact lenses and flush eyes with copious quantities of cool water. Move patient to fresh air as soon as possible.

INGESTION:
Although ingestion is unlikely and not considered a potential route of exposure, individuals should be treated as having an acute non-specific airway reaction by an appropriate specialist. Do not induce vomiting.

Delayed Effects: Rubefacient effects usually subside within 30 minutes. Cool water or cool circulating air will minimize discomfort.

Advice to Physician/Special Consideration: Inhalation may aggravate or initiate asthmatic episodes. Pre-existing skin disorders may be aggravated by exposure to this material. Treat patient as if acute non-specific upper airway reaction.
Section 5 – Firefighting Measures

5.1 Extinguishing Media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides ($NO_x$)

5.3 Advice for firefighters
Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Further information
No data available

Section 6 – Accidental Release Measures

Steps to be taken in case material is accidentally released:
- Respiratory protection: NIOSHA approved respirator
- Ventilation: Mechanical ventilation to keep exposure below recommended limits
- Protective Gloves: Rubber, PVA, or neoprene
- Eye Protection: Safety goggles or face shield
- Skin Protection: Use appropriate barrier clothing

Methods for Cleaning Up:
- Protective Equipment: Wear goggles and use NIOSH/MSHA approved respirator or self-contained breathing apparatus (SCBA) and full protective clothing to protect from incapacitating effects of capsaicin exposure.

Procedure to be followed in Case of Leak or Spill:
Evacuate area, sweep up material, place in bag and hold for waste disposal. Care should be taken to avoid causing dust to become airborne. Ventilate area and wash spill site with water after material pickup is complete.

Waste Disposal Measures: Not considered a hazardous waste as referenced in 40 CFR 261.24 or 261.3.

Section 7 – Handling and Storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: 2 – 8 °C
Keep in a dry place.

7.3 Specific end uses(s)
Apart from the uses mentioned in section 1, no other specific uses are stipulated
Section 8 – Exposure Controls / Personal Protection

8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection
For nuisance exposures, use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: finely ground dense powder
b) Odor pungent, irritating
c) Odor Threshold no data available
d) pH no data available
e) Melting point/freezing point no data available
f) Initial boiling point/range no data available
g) Flash point no data available
h) Evaporation rate no data available
i) Flammability (solid, gas) no data available
j) Upper/lower flammability or explosive limits no data available
k) Vapor pressure no data available
l) Vapor density no data available
m) Relative density no data available
n) Water solubility insoluble
Section 10 – Stability and Reactivity

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

Section 11 – Toxicological Information

Overexposure Acute: Cause irritation of eyes and skin. Swallowing can cause Gastronomical irritation. Inhalation can cause coughing, sneezing, nausea, headache or vomiting.

Overexposure Chronic: The toxicological properties of this product have not been fully investigated. Repeated exposure may present additional hazards.
Section 12 – Ecological Information

12.1 Toxicity
   No data available

12.2 Persistence and degradability
   No data available

12.3 Bio-accumulative potential
   No data available

12.4 Mobility in soil
   No data available

12.5 Results of PBT and vPvB assessment
   PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
   No data available

Section 13 – Disposable Considerations

13.1 Waste treatment methods
   Product
   Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

   Contaminated packaging
   Dispose of as unused product.

Section 14 – Transport Information

DOT (US)
UN number: 3335    Class: 9
Proper shipping name: Aviation regulated solid, n.o.s. (Nonivamide)
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
Not dangerous goods

IATA
UN number: 3335    Class 9    Packing group: III
Proper shipping name: Aviation regulated solid, n.o.s. (Nonivamide)
Section 15 – Regulatory Information

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right To Know Components
Nonivamide CAS-No. 2444-46-4

New Jersey Right To Know Components
Nonivamide CAS-No. 2444-46-4

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 – Other information including information on preparation and revision of the SDS

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.  Eye irritation
H315    Causes skin irritation.
H317    May cause an allergic skin reaction.
H319    Causes serious eye irritation.
H335    May cause respiratory irritation.
Skin Irrit.  Skin irritation
Skin Sens.  Skin sensitization

HMIS Rating
Health Hazard:    2
Chronic Health Hazard:  *
Flammability:    0
Physical Hazard:  0

NFPA Rating
Health Hazard:    2
Fire Hazard:    0
Reactivity Hazard:  0
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Section 1 – Identification of the substance or mixture and of the supplier

Product Name: Pink Impact Projectile
Product Number: 48555
MSDS Reference: FN303-2
Product Class: Propylene Glycol based Pigment Dispersion.
Product Use: Clear Ball Marking Liquid. Manufactured exclusively for FN Herstal S.A.
Manufacturer’s Name: United Tactical Systems, LLC
Street Address: 28101 Ballard Drive, Unit F
City, State, Zip code: Lake Forest, IL  60045
Emergency Phone Number: (800) 424 9300
(847) 367-8960
FAX Number: (847) 367-8980

Section 2 – Hazards Identification

No Known Hazardous Ingredients

Section 3 – Composition / Information on ingredients

82%  Propylene Glycol     CAS # 57-55-6
<9%  Dyed Pigment
    C.I. Basic Red 1:1     CAS # 3068-39-1
    Triethanolamine       CAS # 102-71-6
<4%  Water       CAS # 7732-18-5
<5%  Clay

Section 4 – First Aid Measures

Skin Contact: Wash with soap and water.
Eye Contact: Flush eye with plenty of water for several minutes. If effects occur, see physician.
Inhalation: Provide fresh air and rest. If effects occur, see physician.
Ingestion: Do not induce vomiting. Call physician.

Section 5 – Firefighting Measures

Flash Point: 217°F
Extinguishing Media: Water fog, dry chemical, carbon dioxide, or foam.
Unusual Fire Hazards: Will support combustion.
Fire Fighting Procedures: Containers may rupture when exposed to extreme heat. Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing if involved in fire.
Flammable Limits: LFL: Not Applicable. UFL: Not Applicable.
Section 6 – Accidental Release Measures

Spilled Material Steps: Absorb on inert materials or flush with water.

Section 7 – Handling and Storage

DOL Storage Category: 3 B

Other Precautions: Keep container closed when not in use. Do not transfer material to other containers for storage. Store in a cool area. Keep out of the reach of children. Avoid dust formation and static discharges.

Section 8 – Exposure Controls / Personal Protection

Respiratory Protection: None needed if good ventilation is maintained. In confined or poorly ventilated areas where vapor concentrations are encountered, wear NIOSH/MESA approved respirator.

Ventilation: Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid breathing sanded or blasted dust.

Protective Gloves: Recommended. Impervious type.

Eye Protection: Recommended. Safety goggles with imperforated side shields.

Other Protective Equipment: As required to avoid wetting clothes.

Section 9 – Physical and Chemical Properties

Boiling Range: 300-400F

Vapor Density: 2.62

Weight per Gallon: 8.9 pounds

Section 10 – Stability and Reactivity

Stability: Stable.

Incompatibility: Avoid contact with strong acids, strong bases, and strong oxidizers

Hazardous Decomp. Prod: Thermal decomposition may yield oxides of carbon, and other toxic fumes.

Polymerization: Will not occur.

Conditions to Avoid: None

Section 11 – Toxicological Information

Overexposure Acute: Can cause irritation of eyes and skin. Swallowing can cause Gastronomical irritation. Breathing concentrated vapors can cause headache or nausea.

Overexposure chronic: The toxicological properties of this product have not been fully investigated. Repeated exposure may present additional hazards.

Section 12 – Ecological Information
Section 13 – Disposable Considerations

Waste Disposal Method: Incineration or land fill in accordance with Federal, State and Local regulations.

Section 14 – Transport Information

Section 15 – Regulatory Information

Section 16 – Other information including information on preparation and revision of the SDS

Hazard Rating System
HMIS Health: 2 Fire: 1 Reactivity: 0 Personal Protection: H

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Section 1 – Identification of the substance or mixture and of the supplier

Product Name: Yellow Impact Projectile
Product Number: 48552
MSDS Reference: FN303-3
Product Class: Latex based Liquid.
Product Use: Permanent Ball Marking Liquid. Manufactured exclusively for FN Herstal S.A.
Manufacturer’s Name: United Tactical Systems, LLC
Street Address: 28101 Ballard Drive, Unit F
City, State, Zip code: Lake Forest, IL 60045
Emergency Phone Number: (800) 424 9300
(847) 367-8960
FAX Number: (847) 367-8980

Section 2 – Hazards Identification

No Known Hazardous Ingredients.

Section 3 – Composition / Information on ingredients

68% Acrylic Polymer (Latex) CAS # 9063-87-0
10% Propylene Glycol CAS # 57-55-6
<15% Aqueous pigment dispersion
  Water CAS # 7732-18-5
  Barium Sulfate CAS # 7727-43-7
  Titanium Dioxide CAS # 13463-67-7
  Polyethylene Glycol CAS # 25322-68-3
<4% Water CAS # 7732-18-5
<2% Clay

Section 4 – First Aid Measures

Skin Contact: Wash with soap and water.
Eye Contact: Flush eye with plenty of water for several minutes. If effects occur, see physician.
Inhalation: Provide fresh air and rest. If effects occur, see physician.
Ingestion: Drink 2 glasses of water. Do not induce vomiting. Call physician.

Section 5 – Firefighting Measures

Flash Point: 217 F
Extinguishing Media: Water fog, dry chemical, carbon dioxide, or foam.
Unusual Fire Hazards: Will support combustion. Material may splatter above 212°F and dried material can burn.
Fire Fighting Procedures: Containers may rupture when exposed to extreme heat. Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing if involved in fire.

Flammable Limits: LFL: Not Applicable. UFL: Not Applicable.

**Section 6 – Accidental Release Measures**

Spilled Material Steps: Contain spills with inert materials like sand or earth, or soak up with absorbent. May create slippery conditions. Transfer to suitable container for disposal.

**Section 7 – Handling and Storage**

DOL Storage Category: 3 B

Other Precautions: Keep container closed when not in use. Do not transfer material to other containers for storage. Store in a cool area. Keep out of the reach of children. Avoid dust formation and static discharges.

**Section 8 – Exposure Controls / Personal Protection**

Respiratory Protection: None needed if good ventilation is maintained. In confined or poorly ventilated areas where vapor concentrations are encountered, wear NIOSH/MESA approved respirator.

Ventilation: Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid breathing sanded or blasted dust.

Protective Gloves: Recommended. Neoprene type.

Eye Protection: Recommended. Safety goggles with imperforated side shields.

Other Protective Equipment: As required to avoid wetting clothes.

**Section 9 – Physical and Chemical Properties**

Boiling Range: 212 F

Vapor Density: <1

Weight Per Gallon: 8.9 pounds

Odor: Slight Ammonia odor

**Section 10 – Stability and Reactivity**

Stability: Stable.

Incompatibility: No known incompatibility.

Hazardous Decomp. Prod: Thermal decomposition may yield oxides of carbon, nitrogen, acrylic monomers, and other toxic fumes.

Polymerization: Will not occur.

Conditions to Avoid: Avoid temperatures above 350F.

**Section 11 – Toxicological Information**

Overexposure Acute: Can cause irritation of eyes and skin. Swallowing can cause Gastronomical irritation. Breathing concentrated vapors can cause headache or nausea.

Overexposure chronic: The toxicological properties of this product have not been fully investigated. Repeated exposure may present additional hazards.
Section 12 – Ecological Information

Section 13 – Disposable Considerations

Waste Disposal Method: Incineration or land fill in accordance with Federal, State and Local regulations.

Section 14 – Transport Information

Section 15 – Regulatory Information

Section 16 – Other information including information on preparation and revision of the SDS

Hazard Rating System
HMIS Health: 2 Fire: 1 Reactivity: 0 Personal Protection: H

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PepperBall Technologies
MATERIAL SAFETY DATA SHEET (MSDS)

Date Updated: 2/4/2002

SECTION I – Product Name/Manufacturer Identification

Product Name: Latex Green Ball Marking Liquid
Product Class: Water Based Pigment Dispersion
Manufacturer Identification:
   Manufacturer Name: Graham Paint & Varnish Co.
   Address: 4800 S. Richmond St.
   Chicago, IL 60632, USA
   Emergency Telephone Number: 800-424-9300
   Information: (800) 255-2628

SECTION II – Hazardous Ingredients

No known hazardous ingredients.

Ingredients: TLV TLV VAP/PRES
            PPM mg/M3 LEL MM HG @ 20°C

SECTION III – Physical Data

Boiling Range: 212-400 degrees F
Vapor Density: Heavier than air
Evaporation Rate: Slower than Ether
% Volatile by Volume: 85.63
Weight per Gallon: 9.14 lbs.

SECTION IV – Fire and Explosion Data

Flammability Class: Not applicable.
Flash Point: >400°F
Extinguishing Media: Not applicable.
Unusual Fire Hazards: None
Fire Fighting Procedures: Containers may rupture when exposed to extreme heat. In case of fire with this material, use proper protective equipment including self-contained breathing apparatus. Can emit toxic fumes upon burning.

SECTION V – Health Hazard Data

Threshold Limit Value: See Section II
Overexposure Acute: Can cause irritation of eyes and skin. Swallowing can cause gastronomical irritation.
Breathing concentrated vapors can cause headache or nausea.
Overexposure Chronic: The toxicological properties of this product have not been fully investigated. Repeated exposure may present additional hazards.
First Aid Procedure:
   Skin Contact: Wash with soap and water. Use emollient cream or lotion.
   Eye Contact: Flush eye with plenty of water. See Physician.
   Inhalation: Provide fresh air and rest.
   Ingestion: Do not induce vomiting. Call Physician.
SECTION VI – Reactivity Data

Stability: Stable
Conditions to Avoid: None
Incompatibility: None
Hazardous Decomp. Prod.: Thermal decomposition may yield oxides of carbon.
Polymerization: Will not occur.
Conditions to Avoid: None

SECTION VII – Spill or Leak Procedures

Spilled Material Steps:
Absorb on inert materials or flush with water.
Waste Disposal Method:
Incineration or land fill in accordance with Federal, State and Local Regulations.

SECTION VIII – Special Protection Information

Respiratory Protection:
None needed if good ventilation is maintained. In confirmed or poorly ventilated areas where vapor concentrations are encountered, wear NIOSH/Mesa approved respirator.

Ventilation:
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid breathing sanded or blasted dust.

Protective gloves: Recommended. Impervious type.
Eye protection: Recommended. Safety goggles with unperforated side shields.
Other Protective Equipment: As required to avoid wetting clothes.

SECTION IX – Special Precautions

Precautions Handling: See below
DOL Storage Category: 3 B
Other Precautions: Keep container closed when not in use. Do not transfer material to other containers for storage. Store in a cool area. Keep out of the reach of children.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE AND RELIABLE, HOWEVER, NO WARRANTY EITHER EXPRESSED OR IMPLIED IS MADE. CONDITIONS UNDER WHICH THIS INFORMATION MAY BE APPLIED ARE BEYOND OUR CONTROL AND WE CAN ASSUME NO LIABILITY FOR RESULTS OF ITS APPLICATION. THIS PRODUCT IS DESIGNED TO BE USED BY PERSONS HAVING SUFFICIENT SKILL TO MAKE INFORMED JUDGEMENTS REGARDING ITS APPLICATION.
SECTION I – Product Name/Manufacturer Identification

Product Name:  PepperBall Inert Tactical Training Powder (Shelf Life 3 Years)
Product Use:  Projectile Fill for Training Purposes
Manufacturer Identification:

<table>
<thead>
<tr>
<th>Manufacturer Name:</th>
<th>PepperBall Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>2713 W. Ferguson Road</td>
</tr>
<tr>
<td></td>
<td>Ft. Wayne, IN 46809</td>
</tr>
<tr>
<td>Emergency Telephone Number:</td>
<td>(877) 887-3773</td>
</tr>
<tr>
<td></td>
<td>(858) 638-0236</td>
</tr>
<tr>
<td>FAX Number:</td>
<td>(858) 638-0781</td>
</tr>
</tbody>
</table>

Senior Chemist:  Kathleen Dwire

SECTION II – Composition/Information on Ingredient

Active Components: None
Inert Ingredients: A proprietary combination of inert carriers and dispersion agents of the Composition:

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulfate</td>
<td>CAS # 7727-43-7</td>
</tr>
<tr>
<td>Non-crystalline amorphous precipitated silica</td>
<td>CAS # 112926-00-8</td>
</tr>
</tbody>
</table>

SECTION III – Physical Data/Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure (mmHg):</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>3.98</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>0.5%</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>0</td>
</tr>
<tr>
<td>Percent Volatile:</td>
<td>0%</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Finely ground dense powder</td>
</tr>
<tr>
<td>Color:</td>
<td>White to off-white/buff</td>
</tr>
<tr>
<td>Odor:</td>
<td>Odorless</td>
</tr>
</tbody>
</table>

SECTION IV – Fire and Explosion Hazard Data

Explosion Data:  Non explosive. No upper or lower explosive limits.
Flash Point:  Non-Flammable
Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions
Unusual Fire and Explosion Hazards:  None
HMIS Rating:

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>
SECTION V – Stability and Reactivity Data

Chemical Stability:
- Stable: X
- Unstable: 

Incompatible/ Materials to Avoid: None

Hazardous Decomposition Products:
- Will occur: X
- Will not occur: 

Hazardous Polymerization Products:
- Will occur: X
- Will not occur: 

SECTION VI – Potential Health Effects/Exposure Guidelines

Primary Routes of Entry:
- Inhalation
- Skin
- Eyes

User Exposure:
- Skin contact with powder may cause slight drying or mechanical irritation due to abrasion.

Carcinogenicity:
- None of the components present in this product are listed by IARC, NPT, OSHA, or ACGIH as a carcinogen.

Chronic Health Effects:
- Heavy extended industrial exposure to the dust by produce a benign pneumoconiosis, termed Baritosis. The reaction results in no impairment of ventilatory function. Mild bronchial irritation may occur.

Threshold Limit Values:
- 5 mg/m³ Respirable Dust (OSHA PEL)
- 10 mg/M³ Total Dust (ACGIH)
- 15 mg/M³ Total Dust (OSHA)

Summary of Health Risks:
- Barium sulfate and amorphous silica are practically non-toxic and chemically non-irritating. Not absorbed by the body.
- Excessive exposure above TLV can give mild pulmonary irritation. Eye contact will result in no specific effects other than general particulate irritation to the eye. Individuals with pre-existing respiratory conditions such as asthma or skin conditions such as dermatitis may be at greater risk for exposure to material.

SECTION VII – First Aid Measures

INHALATION
- If high concentrations are inhaled, immediately remove subject to fresh air. Get medical help for any breathing difficulty.

SKIN CONTACT:
- Wash skin with mild soap and water.

EYE CONTACT:
- Flush thoroughly with plenty of water for at least 15 minutes. Get medical help if irritation persists.

INGESTION:
- Although ingestion is unlikely and not considered a potential route of exposure, if patient is conscious give large quantities of water to induce vomiting. Get medical attention.

Advice to Physician/Special Consideration:
- Treat symptomatically for lung or eye irritation, if present.
SECTION VIII – Accidental Release/Disposal Considerations

Steps to be taken in case material is accidentally released:

Respiratory protection: NIOSHA approved respirator
Ventilation: Mechanical ventilation to keep exposure below recommended limits
Protective Gloves: Leather or Rubber Gloves
Eye Protection: Safety goggles or face shield
Skin Protection: Use rubber apron if convenient for operation

Methods for Cleaning Up:

Protective Equipment: Wear goggles and use NIOSH/MSHA approved respirator.

Procedure to be Followed in Case of Leak or Spill: Care should be taken to avoid causing dust to become airborne. Ventilate area and wash spill site with water after material pickup is complete.

Waste Disposal Measures: Not considered a hazardous waste as referenced in 40 CFR 261.24 or 261.3. This material passes the RCRA-TCLP test and may be treated as a non-hazardous waste.

SECTION IX – Precautions for Safe Handling and Use

Precautions to be taken in storage and handling: Keep tightly closed. Store in a cool dry place.

Proper disposal of containers: Dispose of in municipal waste in accordance with Federal, State or Local regulations or offer for recycling if appropriate for area.

SECTION X – Transportation Information

DOT Classification: Class 55
Hazard Class: Not considered a hazardous material
Proper Shipping Name: Not regulated

SECTION XI – Environmental Impact

California: This material does not contain any components listed under California Proposition 65.

Clean Air Act Amendments of 1990 (CAA 40 CFR): No components are listed as hazardous air pollutants. The product is not made with nor does it contain any Class 1 or Class 2 ozone depleting substances as defined under the amendments to the act.


Canadian WHMIS: Not a controlled product.

CERCLA: Not a hazardous substance as referenced in 40 CFR 302.4. It is not on the list of hazardous substances under the clean water act (40 CFR 116 and 117).

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE AND RELIABLE; HOWEVER, NO WARRANTY EITHER EXPRESSED OR IMPLIED IS MADE. CONDITIONS UNDER WHICH THIS INFORMATION MAY BE APPLIED ARE BEYOND OUR CONTROL AND WE CAN ASSUME NO LIABILITY FOR RESULTS OF ITS APPLICATION. THIS PRODUCT IS DESIGNED TO BE USED BY PERSONS HAVING SUFFICIENT SKILL TO MAKE INFORMED JUDGEMENTS REGARDING ITS APPLICATION.
SECTION I – Product Name/Manufacturer Identification

Product Name: PepperBall® Tactical Powder (Shelf Life 3 Years)
Product Use: Incapacitant Projectile Fill (PAVA, capsaicin II, nonivamide)
Manufacturer Identification:
   Manufacturer Name: PepperBall Technologies
   Address: 2713 W. Ferguson Road
             Ft. Wayne, IN 46809
   Emergency Telephone Number: (877) 867-3773
                             (858) 638-0236
                             (858) 638-0781
FAX Number:  

SECTION II – Composition/Information on Ingredient

Active Components: Capsaicin
Formula: C18H27NO3
Synonyms: Capsaicin II, capsaicinoid, red pepper extract, PAVA, nonivamide
Certified level: 0.5% +/- 0.02% w/w capsaicin II
Inert Ingredients: A proprietary combination of inert carriers and dispersion agents.

SECTION III – Physical Data/Chemical Properties

Boiling Point: Not Applicable
Vapor Pressure (mmHg): Not Applicable
Specific Gravity: 3.98
Solubility in water: 0.5%
Evaporation Rate: 0
Percent Volatile: 0%
Appearance: Finely ground dense powder
Color: White to off-white/buff
Odor: Pungent, irritating

SECTION IV – Fire and Explosion Hazard Data

Explosion Data: Non explosive. No upper or lower explosive limits.
Flash Point: Non-Flammable
Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions
Unusual Fire and Explosion Hazards: None
HMIS Rating: Health: 1  Flammability: 0  Reactivity: 0

MSDS – PepperBall® Tactical Powder, Page 1 of 3
SECTION V – Stability and Reactivity Data

Chemical Stability:
- Stable  X
- Unstable __

Incompatible/Materials to Avoid: None

Hazardous Decomposition Products:
- Will occur  X
- Will not occur __

Hazardous Polymerization Products:
- Will occur __
- Will not occur  X

SECTION VI – Potential Health Effects/Exposure Guidelines

Primary Routes of Entry:
- Inhalation
- Skin
- Eyes

User Exposure:
Skin contact with powder may cause temporary acute pain and rubefacient effect.

Carcinogenicity:
None of the components present in this product are listed by IARC, NPT, OSHA, or ACGIH as a carcinogen.

Exposure Guidelines:

<table>
<thead>
<tr>
<th></th>
<th>PEL: 1000 ppm</th>
<th>STEL: 1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8 Hr. TWA</td>
<td>WEEL: 1000 ppm</td>
</tr>
</tbody>
</table>

SECTION VII – First Aid Measures

INHALATION
If breathing is difficult, administer oxygen. Symptoms may include: coughing, sneezing, burning eyes and skin, nausea and possibly vomiting. If high concentrations are inhaled, immediately remove subject to fresh air. Keep person calm. If not breathing, begin artificial respiration. If breathing difficulty persists, seek medical attention.

SKIN CONTACT:
In case of contact, wash skin with soap and water to prevent further exposure. Flush skin with copious amounts of cool water to minimize irritant effect. Wash contaminated clothing before reuse. Do not apply salves or dressing to affected areas.

EYE CONTACT:
Remove contact lenses and flush eyes with copious quantities of cool water. Move patient to fresh air as soon as possible.

INGESTION:
Although ingestion is unlikely and not considered a potential route of exposure, individuals should be treated as having an acute non-specific airway reaction by an appropriate specialist. Do not induce vomiting.

Delayed Effects:
Rubefacient effects usually subside within 30 minutes. Cool water or cool circulating air will minimize discomfort.

Advice to Physician/Special Consideration:
Inhalation may aggravate or initiate asthmatic episodes. Pre-existing skin disorders may be aggravated by exposure to this material. Treat patient as if acute non-specific upper airway reaction.

MSDS – PepperBall® Tactical Powder, Page 2 of 3
SECTION VIII – Accidental Release/Disposal Considerations

Steps to be taken in case material is accidentally released:
- Respiratory protection: NIOSHA approved respirator
- Ventilation: Mechanical ventilation to keep exposure below recommended limits
- Protective Gloves: Rubber, PVA, or neoprene
- Eye Protection: Safety goggles or face shield
- Skin Protection: Use appropriate barrier clothing

Methods for Cleaning Up:
- Protective Equipment: Wear goggles and use NIOSH/MSHA approved respirator or self-contained breathing apparatus (SCBA) and full protective clothing to protect from incapacitating effects of capsaicin exposure.
- Procedure to be Followed in Case of Leak or Spill: Evacuate area, sweep up material, place in bag and hold for waste disposal. Care should be taken to avoid causing dust to become airborne. Ventilate area and wash spill site with water after material pickup is complete.
- Waste Disposal Measures: Not considered a hazardous waste as referenced in 40 CFR 261.24 or 261.3.

SECTION IX – Precautions for Safe Handling and Use

Precautions to be taken in storage and handling: Keep tightly closed. Store in a cool dry place.
Proper disposal of containers: Dispose of in municipal waste in accordance with Federal, State or Local regulations or offer for recycling if appropriate for area.

SECTION X – Transportation Information

DOT Classification: Class 55
Hazard Class: Not considered a hazardous material

SECTION XI – Environmental Impact

California: This material does not contain any components listed under California Proposition 65.
Clean Air Act Amendments of 1990 (CAA 40 CFR): No components are listed as hazardous air pollutants. The product is not made with nor does it contain any Class 1 or Class 2 ozone depleting substances as defined under the amendments to the act.
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SECTION I – Product Name/Manufacturer Identification

Product Name: PepperBall® 10X Tactical Powder (Shelf Life 3 Years)
Product Use: Incapacitant Projectile Fill (PAVA, capsaicin II, nonivamide)
Manufacturer Identification: PepperBall Technologies
Manufacturer Name: 2713 W. Ferguson Road
Address: Fort Wayne, IN 46809
Emergency Telephone Number: (877) 887-3773
FAX Number: (858) 638-0236
(858) 638-0781

SECTION II – Composition/Information on Ingredient

Active Components: Capsaicin
Formula: C_{18}H_{27}NO_{3}
Synonyms: Capsaicin II, capsaicinoid, red pepper extract, PAVA, nonivamide
Certified level: 5.0%/+-0.02% w/w capsaicin II
Inert Ingredients: A proprietary combination of inert carriers and dispersion agents.

SECTION III – Physical Data/Chemical Properties

Boiling Point: Not Applicable
Vapor Pressure (mmHg): Not Applicable
Specific Gravity: 3.98
Solubility in water: 0.5%
Evaporation Rate: 0
Percent Volatile: 0%
Appearance: Finely ground dense powder
Color: White to off-white/buff
Odor: Pungent, irritating

SECTION IV – Fire and Explosion Hazard Data

Explosion Data: Non explosive. No upper or lower explosive limits.
Flash Point: Non-Flammable
Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions
Unusual Fire and Explosion Hazards: None
HMIS Rating:
Health: 1
Flammability: 0
Reactivity: 0
SECTION V – Stability and Reactivity Data

Chemical Stability:
- Stable: X
- Unstable: __

Incompatible/Materials to Avoid: None

Hazardous Decomposition Products:
- Will occur: ___
- Will not occur: X

Hazardous Polymerization Products:
- Will occur: ___
- Will not occur: X

SECTION VI – Potential Health Effects/Exposure Guidelines

Primary Routes of Entry:
- Inhalation
- Skin
- Eyes

User Exposure:
Skin contact with powder may cause temporary acute pain and rubefacient effect.

Carcinogenicity:
None of the components present in this product are listed by IARC, NPT, OSHA, or ACGIH as a carcinogen.

Exposure Guidelines:
- PEL: 1000 ppm 8 Hr. TWA
- STEL: 1000 ppm
- WEEL: 1000 ppm

SECTION VII – First Aid Measures

INHALATION:
If breathing is difficult, administer oxygen. Symptoms may include: coughing, sneezing, burning eyes and skin, nausea and possibly vomiting. If high concentrations are inhaled, immediately remove subject to fresh air. Keep person calm. If not breathing, begin artificial respiration. If breathing difficulty persists, seek medical attention.

SKIN CONTACT:
In case of contact, wash skin with soap and water to prevent further exposure. Flush skin with copious amounts of cool water to minimize irritant effect. Wash contaminated clothing before reuse. Do not apply salves or dressing to affected areas.

EYE CONTACT:
Remove contact lenses and flush eyes with copious quantities of cool water. Move patient to fresh air as soon as possible.

INGESTION:
Although ingestion is unlikely and not considered a potential route of exposure, individuals should be treated as having an acute non-specific airway reaction by an appropriate specialist. Do not induce vomiting.

Delayed Effects: Rubefacient effects usually subside within 30 minutes. Cool water or cool circulating air will minimize discomfort.

Advice to Physician/Special Consideration: Inhalation may aggravate or initiate asthmatic episodes. Pre-existing skin disorders may be aggravated by exposure to this material. Treat patient as if acute non-specific upper airway reaction.
SECTION VIII – Accidental Release/Disposal Considerations

Steps to be taken in case material is accidentally released:
- Respiratory protection: NIOSHA approved respirator
- Ventilation: Mechanical ventilation to keep exposure below recommended limits
- Protective Gloves: Rubber, PVA, or neoprene
- Eye Protection: Safety goggles or face shield
- Skin Protection: Use appropriate barrier clothing

Methods for Cleaning Up:
- Protective Equipment: Wear goggles and use NIOSH/MSHA approved respirator or self-contained breathing apparatus (SCBA) and full protective clothing to protect from incapacitating effects of capsaicin exposure.
- Procedure to be Followed in Case of Leak or Spill: Evacuate area, sweep up material, place in bag and hold for waste disposal. Care should be taken to avoid causing dust to become airborne. Ventilate area and wash spill site with water after material pickup is complete.

Waste Disposal Measures: Not considered a hazardous waste as referenced in 40 CFR 261.24 or 261.3.

SECTION IX – Precautions for Safe Handling and Use

Precautions to be taken in storage and handling: Keep tightly closed. Store in a cool dry place.
Proper disposal of containers: Dispose of in municipal waste in accordance with Federal, State or Local regulations or offer for recycling if appropriate for area.

SECTION X – Transportation Information

DOT Classification: Class 55
Hazard Class: Not considered a hazardous material

SECTION XI – Environmental Impact

California: This material does not contain any components listed under California Proposition 65.
Clean Air Act Amendments of 1990 (CAA 40 CFR): No components are listed as hazardous air pollutants. The product is not made with nor does it contain any Class 1 or Class 2 ozone depleting substances as defined under the amendments to the act.
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MSDS – PepperBall® 10X Tactical Powder, Page 3 of 3
# Safety Data Sheet

**SABRE Red Cone/Fogger/CB/AG**

**SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**PRODUCT NAME:** SABRE Red Cone/Fogger/Cell Buster/Aerosol Grenade

**SYNONYMS:** Pepper Spray, OC Spray

**CHEMICAL NAME:** Oleoresin Capsicum (Red Pepper)

**CHEMICAL FAMILY:** Irritant Agent

**PRODUCT USE:** Handheld aerosol canister that sprays an irritating formula in the eyes, nose and mouth of a person threatening your personal safety.

**MODEL #'s:** 520001-C; 520006-C; 520040-C; 521010-C; 721010-C; 520010-C; 520010-C-SW; 520020-C; 520020-1; 520022-R-C; 520022-BC-C; 520030-C; 520030-C-FBOP; 520030-1; 920050-C; 920060-C; 920060-W; 920060-A; 920060-2A-WH; AG-10; AG-40; 5200PN-C; 5200BTR-C; 520021-C; 528530-C-H

**Manufacturer's Name:** SECURITY EQUIPMENT CORPORATION
**Address:** 747 SUN PARK DRIVE
**City, State, Zip:** FENTON, MO 63026
**Emergency Phone Number:** 800-325-9568
**Other Calls:** 636-343-0200
**Fax Number:** 636-343-1318

**SECTION 2 - HAZARDOUS IDENTIFICATION**

**STATEMENT OF HAZARDOUS NATURE**

SEVERE SKIN, EYE, RESPIRATORY & DIGESTIVE IRRITANT. CONTENTS UNDER PRESSURE. KEEP OUT OF THE REACH OF CHILDREN. DO NOT PUNCTURE OR INCINERATE CAN. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120°F. DO NOT USE AFTER CANISTER'S EXPIRATION DATE. CONTENTS ARE DANGEROUS, USE WITH CARE.

**HAZARDOUS SUBSTANCE. SEVERE IRRITANT. DANGEROUS GOODS. CONTENTS UNDER PRESSURE. According to the Criteria of NOHSC, and the ADG Code.**

**RISK:**

- **SAFETY:**
  - Irritating to skin.
  - Do not breathe gas/fumes/vapor/spray.
  - Irritating to eyes.
  - Wear eye/face protection.
  - Irritating to respiratory system.
  - To clean the floor and all objects contaminated by this material, use water.
  - Irritating to digestive system.
  - Take off immediately all contaminated clothing.

- **Risk of explosion if heated under confinement.**
  - In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Center.
  - Material and container must be disposed of as hazardous waste.

**HMIS Ratings:**

- **Health:** 2
- **Fire:** 1
- **Reactivity:** 0

**POISONS SCHEDULE:**

- **Concentration:** 10% @ 1.33% Major Capsaicinoids
- **Classification:** Irritating to skin, eyes, respiratory and digestive systems

**Signs & Symptoms Of Exposure:** Ingredients cause irritation through all routes of entry.

**EYE:** Liquid or vapors may cause redness, burning, tearing, swelling and/or pain.

**SKIN:** Frequent or repeated contact with skin may cause burning, redness or skin irritation and dermatitis.

**INGESTION:** Ingestion may cause irritation to the mouth, throat and stomach, as well as nausea, vomiting, and/or diarrhea.

**INHALATION:** May cause irritation of the respiratory tract as coughing, sneezing, gagging, chest tightness and irritation to the throat and lungs.

**MEDICAL CONDITIONS AGRAVATED:** May cause more severe, temporary, effects on those persons who are asthmatics or suffer from emphysema.

**CARCINOGEN DATA:** None of the Ingredients in this product are listed with OSHA, IARC or NTP as carcinogenic.

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Hazardous Component(s) (chemical &amp; common name(s))</th>
<th>Content(s)</th>
<th>OSHA TWA</th>
<th>ACGIH TLV</th>
<th>Carcinogen (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oleoresin Capsicum (OC or Red Pepper) CAS# 8023-77-6</td>
<td>10% *</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>Diethylene Glycol Monobutyl Ether CAS# 112-34-5</td>
<td>**</td>
<td>N/A</td>
<td>10 ppm</td>
<td>No</td>
</tr>
<tr>
<td>Propylene Glycol CAS# 57-55-6</td>
<td>**</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>HFC 134a (Propellant) CAS#: 811-97-2</td>
<td>**</td>
<td>1000 ppm</td>
<td>NO</td>
<td>No</td>
</tr>
</tbody>
</table>

* 10% @ 1.33% Major Capsaicinoids

**Major Capsaicinoids are determined via A.O.A.C. Method 995.03.** **Other ingredients are trade secrets as defined in Hazard Communications ACT 29 CFR 1910.1200(g).**
SECTION 1 - Identification

**Product Name:**

**Description:**

**CAS Number:**

**Synonyms:**

**Markings:**

**Use or Application:**

**Health Hazards:**

**First Aid Measures:**

1. **Inhalation**
   - Remove from contaminated area immediately. Provide fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, administer CPR. Seek immediate medical attention.

2. **Eye Contact**
   - Only exposed subject or EMS should remove subject's contact lenses. Irrigate with cool water for at least 15 minutes, or until relieved. Seek medical attention if irritation persists.

3. **Skin Contact**
   - Flush with cool water for at least 15 minutes. Wash with mild soap and water. Seek medical attention if irritation persists.

4. **Ingestion**
   - DO NOT INDUCE VOMITING. If victim is conscious and not convulsing, rinse mouth with water. Ingest milk or water. Call 800-535-5053 or obtain medical advice immediately. If victim is convulsing or unconscious, do not give anything by mouth, ensure the victim's airway is open and lay the victim on his/her side with the head lower than the body. IMMEDIATELY transport the victim to a hospital.

**Emergency & First Aid Procedures:**

Remove victim from contaminated area and remove contaminated clothing. Provide fresh air, irrigate with copious amounts of cool water. Obtain medical advice if symptoms persist.

**Routes Of Entry:**

- **Inhalation:**
  - Provide fresh air.
- **Eye Contact:**
  - Irrigate with cool water.
- **Skin Contact:**
  - Wash with soap and cool water.
- **Ingestion:**
  - Do not induce vomiting.

**SECTION 2 - Hazard Communication**

**Flammability Classification 16 CFR 1500.45:**

- Non-Flammable; Electronic Immobilization Device Compatible

**Flash Point:**

- > 106° C (228° F)

**Auto-Ignition Temperature:**

- 228° C (442° F)

**Extinguishing Media:**

- Halon, Carbon Dioxide, Dry Chemical or Water

**Special Fire Fighting Procedures:**

- Wear respirator or self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:**

- Smoke would be irritating to eyes and mucous membranes. Containers may burst in the heat of a fire.

**SECTION 5 - FIRE-FIGHTING MEASURES**

**Stability and Reactivity:**

- **Stability:**
  - Unstable
  - Conditions To Avoid: N/A
- **Hazardous Polymerization:**
  - Will Not Occur
  - Conditions To Avoid: N/A

**Appearance & Odor:**

- Red/Orange in color. Odor is pungent

**Boiling Point:**

- 230° C (446° F)

**Solubility in Water:**

- Soluble

**Vapor Pressure:**

- 100 PSI

**Unusual Fire and Explosion Hazards:**

- If inside: Ventilate area and after absorbent process, wash area with soap and cold water

**Waste Disposal Method:**

- Dispose of in accordance with current laws and regulations.

**Engineering Controls:**

- Provide ventilation if working in confined areas.

**Respiratory Protection:**

- Provided by other protective clothing/equipment as necessary.

**Ventilation:**

- Provided by other protective clothing/equipment as necessary.

**Protective Gloves:**

- Suggested (not required)

**Eye Protection:**

- Provided by other protective clothing/equipment as necessary.

**Other Protective Clothing/Equipment:**

- Not required

**Work/Hygienic Practices:**

- Avoid absorption of product on clothing. If absorbed in clothing, remove and wash clothes at once. Do not eat, drink, or smoke while handling product.

**UN/NAZ Number:**

- N/A

**Physical & Chemical Properties:**

- Physical State: Liquid
- Specific Gravity (H20 = 1): ~0.95 @ 20° C

**Safe Handling & Precautions:**

- Not normally required in well-ventilated areas, however, NIOSH approved respiratory protection may be required when the material is used in confined areas. Avoid overexposure for long periods in enclosed areas.
SECTION 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Severity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Draize Test: Skin, rabbit, 500 mg</td>
<td>Slightly Irritating</td>
</tr>
<tr>
<td>Standard Draize Test: Eye, rabbit, 100 mg</td>
<td>Moderately Irritating</td>
</tr>
<tr>
<td>ACUTE INHALATION LC50 (rat):</td>
<td>&gt; 100.5 mg/L</td>
</tr>
</tbody>
</table>

SECTION 12 - ECOLOGICAL INFORMATION

This product has not been tested for environmental effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Consult Federal, State, and Local Regulations
Evacuate contents in a safe area, & dispose of container.

SECTION 14 - TRANSPORT INFORMATION

DOT HM-181 INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>GROUND</th>
<th>AIR</th>
<th>OCEAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>LTD. QTY</td>
<td>Aerosols, non-flammable</td>
<td>Aerosols, non-flammable</td>
</tr>
<tr>
<td>Hazard Class or Division:</td>
<td>none</td>
<td>2.2</td>
<td>2.2</td>
</tr>
<tr>
<td>Identification Number:</td>
<td>none</td>
<td>UN1950</td>
<td>UN1950</td>
</tr>
<tr>
<td>Packaging Group:</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Label(s) Required:</td>
<td>none</td>
<td>2.2</td>
<td>2.2</td>
</tr>
</tbody>
</table>

INTERNATIONAL TRANSPORTATION REGULATIONS

Regulations vary from country to country. Check regulations for your country.

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<td>none</td>
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<td>2.2</td>
</tr>
</tbody>
</table>

SECTION 15 - REGULATORY INFORMATION

GHS within the EU: The new classification & labelling system according to CLP regulation (EC) No 1272/2008

Health hazard symbol: ![Exclamation Mark Skin & Eye Irritation, Category 2](Image)

P-Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P102</td>
<td>Keep out of reach of children.</td>
</tr>
<tr>
<td>P201</td>
<td>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</td>
</tr>
<tr>
<td>P210</td>
<td>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</td>
</tr>
<tr>
<td>P251</td>
<td>Do not pierce or burn, even after use.</td>
</tr>
<tr>
<td>P302</td>
<td>IF ON SKIN: Wash with plenty of water</td>
</tr>
<tr>
<td>P305</td>
<td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</td>
</tr>
<tr>
<td>P337</td>
<td>If eye irritation persists get medical advice/attention.</td>
</tr>
<tr>
<td>P410</td>
<td>Protect from sunlight.</td>
</tr>
<tr>
<td>P412</td>
<td>Do not expose to temperatures exceeding 50 °C/122 °F.</td>
</tr>
</tbody>
</table>

TOXIC SUBSTANCES CONTROL ACT:

This product is in compliance with the U.S. Toxic Substances Control Act (TSCA) inventory requirements.

SARA TITLE III, SECTION 313: CAS# 112-34-5
CLEAN AIR ACT (CAA): Not Listed
CLEAN WATER ACT (CWA): Not Listed
CALIFORNIA PROPOSITION 65: Not Listed
MASSACHUSETTS RIGHT TO KNOW: CAS# Not Listed
PENNSYLVANIA RIGHT TO KNOW: CAS# 112-34-5 57-55-6
NEW JERSEY RIGHT TO KNOW: CAS# 112-34-5 57-55-6
CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEMS (WHMIS): Not Listed

SECTION 16 - OTHER INFORMATION

Format and Preparation Complies with ANSI Z400.1-1993

DISCLAIMER: This brief provides a general overview of the safety data sheet requirements in the Hazard Communication Standard (see 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200(g). It does not alter or determine compliance responsibilities in the standard or the Occupational Safety and Health Act of 1970. Since interpretations and enforcement policy may change over time, the reader should consult current OSHA compliance requirements. Please note that states with OSHA-approved state plans may have additional requirements for chemical data sheets, outside of those outlined above. For more information on those standards, please visit http://www.osha.gov/dcs/osp/ostatesstandards.html.
Safety Data Sheet

SABRE Red H2O & CROSSFIRE Stream

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200(g). Standard must be reviewed for specific requirements.

THIS PRODUCT IS EXEMPT FROM THE GLOBAL HARMONIZED STANDARD (GHS) 29CFR §1910.1200(b)(5)(v)

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: SABRE Red H2O & CROSSFIRE Stream
SYNONYMS: Pepper Spray, OC Spray
CHEMICAL NAME: Oleoresin Capsicum (Red Pepper)
CHEMICAL FAMILY: Irritant Agent
PRODUCT USE: Handheld aerosol canister that sprays an irritating formula in the eyes, nose and mouth of a person threatening your personal safety.

MODEL #s:
52H2O06; 52H2O06-RCMP; 52H2006x; 52H2O08; 52H2O22-R; 52H2O22-PC; 52H2O22-BC; 52H2O1010; 72H2O1010; 52H2O10; 52H2O20; 52H2O30; 92H2O50; 92H2O50-RCMP; 92H2O60; 52H2ONY-BK; 32CFT20; 32CFT20-R; 52CFT1010; 72CFT1010; 52CFT10; 52CFT10-RCMP; 52CFT10-LASD; 12CFT20; 52CFT20; 52CFT30; 12H2O20; 52H2O2i

Manufacturer's Name: SECURITY EQUIPMENT CORPORATION
Address: 747 SUN PARK DRIVE
City, State, Zip: FENTON, MO 63026
Further Information obtainable from Info Trac.
Information in case of emergency:
Tel.: +1-800-535-5053
Fax: +1-352-323-3500

SECTION 2 - HAZARDOUS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: HAZARDOUS SUBSTANCE. SEVERE IRRITANT. DANGEROUS GOODS. CONTENTS UNDER PRESSURE. According to the Criteria of NOHSC, and the ADG Code.

SEVERE SKIN, EYE, RESPIRATORY & DIGESTIVE IRRITANT. CONTENTS UNDER PRESSURE. KEEP OUT OF THE REACH OF CHILDREN. DO NOT PUNCTURE OR INCINERATE CAN. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120°F. DO NOT USE AFTER CANISTER'S EXPIRATION DATE. CONTENTS ARE DANGEROUS, USE WITH CARE.

HAZARD DESCRIPTION:

Name: Oleoresin Capsicum
Concentration: 10% @ 1.33% Major Capsaicinoids
Classification: Irritating to skin, eyes, respiratory and digestive systems

POISONS SCHEDULE: None

RISK:

IRRITATING TO SKIN.
Do not breathe gas/fumes/vapor/spray.
Wear eye/face protection.
To clean the floor and all objects contaminated by this material, use water.
Take off immediately all contaminated clothing.

In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Center.
If swallowed, IMMEDIATELY contact Doctor or Poisons Information Center. (show this container or label).

HMIS Ratings:

Health: 2
Fire: 1
Reactivity: 0

Signs & Symptoms Of Exposure: Ingredients cause irritation through all routes of entry.

EYE: Liquid or vapors may cause redness, burning, tearing, swelling and/or pain.
SKIN: Frequent or repeated contact with skin may cause burning, redness or skin irritation and dermatitis.
INGESTION: Ingestion may cause irritation to the mouth, throat and stomach, as well as nausea, vomiting, and/or diarrhea.
INHALATION: May cause irritation of the respiratory tract as coughing, sneezing, gagging, chest tightness and irritation to the throat and lungs.

MEDICAL CONDITIONS AGRAVATED: May cause more severe, temporary, effects on those persons who are asthmatics or suffer from emphysema.

CARCINOGEN DATA: None of the Ingredients in this product are listed with OSHA, IARC or NTP as carcinogenic.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component(s) (chemical &amp; common name(s))</th>
<th>Content(s)</th>
<th>OSHA TWA</th>
<th>ACGIH TLV</th>
<th>Carcinogen (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oleoresin Capsicum (OC or Red Pepper) CAS# 8023-77-6</td>
<td>10%*</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>Ethanol CAS# 64-17-5 **</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Propylene Glycol CAS# 57-55-6 **</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Polyisorbate 80 CAS# 9005-65-6 **</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Nitrogen CAS# 7727-37-9</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

*10% @ 1.33% Major Capsaicinoids

Major Capsaicinoids are determined via A.O.A.C. Method 995.03. ** Other ingredients are trade secrets as defined in Hazard Communications ACT 29 CFR 1910.1200(g) Para 1 (1) end Appendix D to CFR 1910.1200(g).
SECTION 4 - FIRST AID MEASURES

Emergency & First Aid Procedures:

1. Inhalation: Remove victim from contaminated area and remove contaminated clothing. Provide fresh air, irrigate with copious amounts of cool water. Obtain medical advice if symptoms persist.

2. Eyes: Only exposed subject or EMS should remove subject’s contact lenses. Irrigate with cool water for at least 15 minutes, or until relieved. Seek medical attention if irritation persists.

3. Skin: Flush with cool water for at least 15 minutes. Wash with mild soap and water. Seek medical attention if irritation persists.

4. Ingestion: DO NOT INDUCE VOMITING. If victim is conscious and not convulsing, rinse mouth with water. Ingest milk or water. Call 800-535-5053 or obtain medical advice immediately. If victim is convulsing or unconscious, do not give anything by mouth, ensure the victim’s airway is open and lay the victim on his/her side with the head lower than the body. IMMEDIATELY transport the victim to a hospital.

SECTION 5 - FIRE-FIGHTING MEASURES

Flammability Classification 16 CFR 1500.45: Non-Flammable; Electronic Immobilization Device Compatible

- Flash Point: N/A
- Auto-Ignition Temperature: N/A

- Extinguishing Media: Halon, Carbon Dioxide, Dry Chemical or Water

- Special Fire Fighting Procedures: Wear respirator or self-contained breathing apparatus.

- Unusual Fire and Explosion Hazards: Smoke would be irritating to eyes and mucous membranes. Containers may burst in the heat of a fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to follow if material is spilled or released:

- Wipe up small spills with absorbent material. With large spills, use respiratory equipment, to avoid irritation, and collect absorbent materials.

- If inside: Ventilate area and after absorbent process, wash area with soap and cold water.

- If outside: Stay upwind.

Waste Disposal Method: Dispose of in accordance with current laws and regulations.

SECTION 7 - HANDLING AND STORAGE

- Precautions to be taken in handling & storage: Store upright in a cool, dry area. Avoid direct light and heat. DO NOT expose to temperatures over 120°F / 50°C. DO NOT puncture or incinerate container.

- Other Precautions: Assure can is in a secure place to prevent accidental rupture.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Respiratory Protection: Not normally required in well-ventilated areas, however, NIOSH approved respiratory protection may be required when the material is used in confined areas. Avoid overexposure for long periods in enclosed areas.

- Ventilation: Yes

- Protective Gloves: Suggested (not required)

- Eye Protection: Yes. Exposure without protection in training environment is acceptable.

- Other Protective Clothing/Equipment: Not required

- Work/Hygienic Practices: Avoid absorption of product on clothing. If absorbed in clothing, remove and wash clothes at once. Do not eat, drink, or smoke while handling product.

- Engineering Controls: Provide ventilation if working in confined areas.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

- Appearance & Odor: Red/orange in color. Odor is pungent

- Physical State: Liquid

- Boiling Point: 100°C (212°F)

- Specific Gravity (H2O = 1): ~1.0 @ 20°C

- Solubility in Water: Soluble

- Vapor Pressure: 140 PSI

SECTION 10 - STABILITY AND REACTIVITY

- Stability: Unstable

- Conditions To Avoid: N/A

- Incompatibility (Materials To Avoid):

| Hazardous Polymerization | Yes | Conditions To Avoid | Hazardous Decomposition Products | N/A |

- Will Not Occur
### SECTION 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Route of Application</th>
<th>Substance</th>
<th>Mass</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Draize Test: Skin, rabbit</td>
<td>500 mg</td>
<td></td>
<td></td>
<td>Slightly Irritating</td>
</tr>
<tr>
<td>Standard Draize Test: Eye, rabbit</td>
<td>100 mg</td>
<td></td>
<td></td>
<td>Moderately Irritating</td>
</tr>
</tbody>
</table>

**ACUTE INHALATION LC50 (rat):** > 100.5 mg/L

### SECTION 12 - ECOLOGICAL INFORMATION

This product has not been tested for environmental effects.

### SECTION 13 - DISPOSAL CONSIDERATIONS

Consult Federal, State, and Local Regulations. Evacuate contents in a safe area, & dispose of container.

### SECTION 14 - TRANSPORT INFORMATION

#### DOT HM-181 INFORMATION

**Proper Shipping Name:**
- **GROUND:** LTD. QTY
- **AIR:** Aerosols, non-flammable

**Hazard Class or Division:**
- **GROUND:** none
- **AIR:** 2.2

**Identification Number:**
- **GROUND:** none
- **AIR:** UN1950

**Packaging Group:**
- **GROUND:** none
- **AIR:** none

**Label(s) Required:**
- **GROUND:** none
- **AIR:** 2.2

#### INTERNATIONAL TRANSPORTATION REGULATIONS

Regulations vary from country to country. Check regulations for your country.

**Proper Shipping Name:**
- **GROUND:** LTD. QTY
- **AIR:** Aerosols, non-flammable
- **OCEAN:** Aerosols, non-flammable

**Hazard Class or Division:**
- **GROUND:** none
- **AIR:** 2.2
- **OCEAN:** 2.2

**Identification Number:**
- **GROUND:** none
- **AIR:** UN1950
- **OCEAN:** UN1950

**Packaging Group:**
- **GROUND:** none
- **AIR:** none
- **OCEAN:** none

**Label(s) Required:**
- **GROUND:** none
- **AIR:** 2.2
- **OCEAN:** 2.2 LTD. QTY

### SECTION 15 - REGULATORY INFORMATION

**Health hazard symbol:** Image

**Signal Word:** WARNING

**Exclamation Mark Skin & Eye Irritation, Category 2**

**H- Codes**
- **H315:** Causes skin irritation
- **H319:** Causes serious eye irritation
- **H229:** Pressurized container: may burst if heated
- **H335:** May cause respiratory irritation

**P-Codes**
- **P210:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **P251:** Do not pierce or burn, even after use.
- **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
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