

# Material Safety Data Sheet

**FIRST DEFENSE®**

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910. 1200. Standard must be consulted for specific requirements.

**QUICK IDENTIFIER**  
 Common Name: (used on label and list)  
**5069 - MK6 First Defense Stream**

## SECTION 1 -

|   |  |  |
|---|--|--|
| Manufacturer's Name<br><i>Defense Technology / Federal Laboratories</i> |  | Emergency Telephone No.<br><i>(800) 424-9300</i> |
| Address<br><i>Postal Box 248</i>  |  | Other Information Calls<br><i>(877) 248-3835</i> |
| City, State, and ZIP<br><i>Casper, Wyoming 82602</i>                    |  | Date Prepared<br><i>11/01/01</i>                 |
| Signature of Person Responsible for Preparation (Optional)              |  |  |

## SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

| Hazardous Component(s) (chemical & common name(s)) | OSHA PEL         | ACGIH TLV        | Other Exposure Limits | % (optional) | CAS NO.         |
|--|------------------|------------------|-----------------------|--------------|-----------------|
| <i>*Capsaicinoids</i>                              | <i>N/A</i>       | <i>N/A</i>       | <i>N/A</i>            | <i>.18%</i>  | <i>404-86-4</i> |
| <i>*Propylene Glycol USP</i>                       | <i>N/A</i>       | <i>N/A</i>       | <i>N/A</i>            | <i>13%</i>   | <i>57-55-6</i>  |
| <i>*Specialty Denatured Alcohol (SDA) 40B</i>      | <i>1,000 ppm</i> | <i>1,000 ppm</i> | <i>N/A</i>            | <i>28%</i>   | <i>64-17-5</i>  |
| <i>*Distilled H2O</i>                              | <i>N/A</i>       | <i>N/A</i>       | <i>N/A</i>            | <i>58%</i>   | <i>N/A</i>      |

*\*Nitrogen is the exclusive propellant.*

*There are no HCFC's or CFC's*

*\*U.S. Patent 5,217,708,*

## SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

|  |  |                                      |
|--|--|--------------------------------------|
| Boiling Point<br><i>&gt;220°</i>               | Specific Gravity (H2O = 1)<br><i>0.955</i> | Vapor Pressure (mm Hg)<br><i>N/A</i> |
| Vapor Density (Air = 1)<br><i>N/A</i>          | Reactivity in Water<br><i>None</i>         |                                      |
| Solubility in Water<br><i>Soluble</i>          | Melting Point<br><i>N/A</i>                |                                      |
| Appearance and Odor<br><i>Creamy / Pungent</i> |  |                                      |

## SECTION 4 - FIRE & EXPLOSION DATA

|   |   |                                     |                         |                         |
|---|---|-------------------------------------|-------------------------|-------------------------|
| Flash Point<br><i>&gt;220°</i>                  | Method Used<br><i>SW846-1010</i>  | Flammable Limits in Air % by Volume | LEL Lower<br><i>N/A</i> | UEL Upper<br><i>N/A</i> |
| Auto-Ignition Temperature<br><i>&gt;220° F.</i> | Extinguisher Media<br><i>Water, foam, dry chemical CO2.</i>                       |                                     |                         |                         |
| Special Fire Fighting Procedures                | <i>Wear respirator or self-contained breathing apparatus to avoid irritation.</i> |                                     |                         |                         |

Unusual Fire and Explosion Hazards *None.*

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**SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)**

Stability Unstable  Conditions to Avoid Stable

Incompatibility (Materials to Avoid) *N/A*

Hazardous Decomposition Products *N/A*

Hazardous Polymerization May Occur Will Not Occur  Conditions to Avoid

**SECTION 6 - HEALTH HAZARDS**

1. Acute

2. Chronic

*See Signs and Symptoms*

*See Signs and Symptoms*

Signs and Symptoms of Exposure *Ingredients may cause irritation through all routes of entry. Repeated contact may cause dermatitis.*

*Ingestion may cause nausea, vomiting, and/or diarrhea.*

Medical Conditions Generally Aggravated by Exposure *May cause more severe, temporary, effects on those persons who are asthmatics*

*or suffer from emphysema*

Chemical Listed as Carcinogen or Potential Carcinogen National Toxicology Program Yes  No  I.A.R.C. Monographs Yes  No  OSHA Yes  No

Emergency and First Aid Procedures *Provide fresh air. Irrigate with copious amounts of cool water. Obtain medical advice if symptoms persist.*

**ROUTES OF ENTRY**

1. Inhalation *Provide fresh air.*

2. Eyes *Irrigate with cool water at least 15 minutes, or until relieved.*

3. Skin *Flush with cool water. Wash with mild soap and water.*

4. Ingestion *Rinse mouth with water. Ingest milk, or water. Obtain medical advice immediately.*

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES**

Precautions to be Taken in Handling and Storage *Store in a cool, dry area. Avoid direct light and heat. Do not expose to temperatures over 120° F.*

Other Precautions *N/A*

Steps to be Taken in Case Material is Released or Spilled *Wipe up small spills with absorbent. With large spills, use respiratory equipment*

*to avoid irritation, and collect with an absorbent.*

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

**SECTION 8 - SPECIAL PROTECTION INFORMATION / CONTROL MEASURES**

Respiratory Protection ( Specify Type ) *Not required under normal conditions of use.*

Ventilation Yes Local Exhaust Yes Mechanical ( General ) Special Other

Protective Gloves Eye Protection *To be utilized in a manufacturing environment in*

Other Protective Clothing or Equipment *Not required and around machinery. Minimal exposure without protective*

Work/Hygienic Practices *Normal eyewear in an officer training environment is acceptable.*

**IMPORTANT**

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.