

# 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)  
5089 - MK8 First Defense Stream

## SECTION 1 -

Manufacturer's Name *Defense Technology / Federal Laboratories*

Address *Postal Box 248* Emergency Telephone No. *(800) 424-9300*

City, State, and ZIP *Casper, Wyoming 82602* Other Information Calls *(877) 248-3835*

Signature of Person Responsible for Preparation (Optional) Date Prepared *11/01/01*

## 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 *>220°* Specific Gravity (H2O = 1) *0.955* Vapor Pressure (mm Hg) *N/A*

Vapor Density (Air = 1) *N/A*

Solubility in Water *Soluble* Reactivity in Water *None*

Appearance and Odor *Creamy / Pungent* Melting Point *N/A*

## SECTION 4 - FIRE & EXPLOSION DATA

Flash Point *>220°* Method Used *SW846-1010* Flammable Limits in Air % by Volume LEL Lower *N/A* UEL Upper *N/A*

Auto-Ignition Temperature *>220° F.* Extinguisher Media *Water, foam, dry chemical CO2.*

Special Fire Fighting Procedures *Wear respirator or self-contained breathing apparatus to avoid irritation.*

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.