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# Material Safety Data Sheet

**FIRST DEFENSE®  
 QUICK IDENTIFIER**

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

Common Name: (used on label and list)  
 5039, 5049, 5069, 5089, 5099, 5721, 5746, 5846L

## SECTION 1 -

**Manufacturer's Name:** Defense Technology Corporation of America

**Address:** Postal Box 340  
 Casper, Wyoming 83602

**Emergency Telephone No.:** (800) 434-9300

**Other Information Calls:** (800) 733-3832

**Signature of Person Responsible for Preparation (Optional):** \_\_\_\_\_  
**Date Prepared:** 2/15/99

## SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
*Capsaicinoids	N/A	N/A	N/A	18%	404-86-5
*Propylene Glycol USP	N/A	N/A	N/A	13%	57-55-5
*Specialty Denatured Alcohol (SDA) 40B	1,000 ppm	1,000 ppm	N/A	28%	64-17-5
*Distilled H <sub>2</sub> O	N/A	N/A	N/A	58%	N/A

\*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:** >230°

**Specific Gravity (H<sub>2</sub>O = 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 / Putrescent

**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 CO<sub>2</sub>.

**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 Stable  to Avoid

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 *See Signs and Symptoms* 2. Chronic *See Signs and Symptoms*

Signs and Symptoms of Exposure *Irritants 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 *To be utilized in a manufacturing environment in*

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

Work/Hygiene Practices *Normal eyewear in an office/training environment is acceptable.*

**IMPORTANT**

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