

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)

5039 - MK3 First Defense Stream

SECTION 1 -

Manufacturer's

Name *Defense Technology / Federal Laboratories*

Address

Postal Box 248

City, State, and ZIP

Casper, Wyoming 82602

Emergency Telephone No.

(800) 424-9300

Other Information Calls

(877) 248-3835

Signature of Person
Responsible for Preparation (Optional)

Date Prepared

11/01/04

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>*Deionized 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 <i>>220°</i>	Specific Gravity (H2O = 1) <i>0.955</i>	Vapor Pressure (mm Hg) <i>N/A</i>
Vapor Density (Air = 1) <i>N/A</i>	Reactivity in Water <i>None</i>	
Solubility in Water <i>Soluble</i>	Melting Point <i>N/A</i>	
Appearance and Odor <i>Creamy / Pungent</i>		

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point <i>>220°</i>	Method Used <i>SW846-1010</i>	Flammable Limits in Air % by Volume	LEL Lower <i>N/A</i>	UEL Upper <i>N/A</i>
Auto-Ignition Temperature <i>>220° F.</i>	Extinguisher Media <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
Stable ☒ to AvoidIncompatibility
(Materials to Avoid) *N/A*Hazardous
Decomposition Products *N/A*Hazardous May Occur ☐ Conditions
Polymerization Will Not Occur ☒ 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 CarcinogenNational Toxicology Yes ☐
Program No ☒I.A.R.C. Yes ☐
Monographs 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.