

Material Safety Data Sheet

MK4
#8800
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)
5049 - MK4 First Defense Stream

SECTION 1 -

Manufacturer's Name *Defense Technology*

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 *11/01/06*

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 *>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.*

QUICK IDENTIFIER
Common Name: (used on label and list)

5049 - MK4 First Defense Stream

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability Unstable Stable Conditions 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 *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.

Material Safety Data Sheet

MK6
#10807
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 <i>Defense Technology</i>		Emergency Telephone No. <i>(800) 424-9300</i>
Address <i>Postal Box 248</i>		Other Information Calls <i>(877) 248-3835</i>
City, State, and ZIP <i>Casper, Wyoming 82602</i>		Date Prepared <i>11/01/06</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 Limits	Exposure % (optional)	CAS NO.
*Capsaicinoids	N/A	N/A	N/A	18%	404-86-4
*Propylene Glycol USP	N/A	N/A	N/A	13%	57-55-6
*Specialty Denatured Alcohol (SDA) 40B	1,000 ppm	1,000 ppm	N/A	28%	64-17-5
*Deionized H2O	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 <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 <i>None</i>	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 <i>None.</i>				

Sent Lisa 4/2/08

QUICK IDENTIFIER
Common Name: (used on label and list)

5069 - MK6 First Defense Stream

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability Unstable Stable Conditions 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 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 Eyc 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.