

# Material Safety Data Sheet

PEPPER MACE®

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)  
4005 - MK4 5.5% Pepper Mace 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>Capsaicin</i>	<i>NG ppm</i>	<i>NG ppm</i>			<i>404-86-4</i>
<i>D-Limonene</i>	<i>NG ppm</i>	<i>NG ppm</i>			<i>5989275</i>
<i>Secondary Butanol</i>	<i>100 ppm</i>	<i>100 ppm</i>			<i>78922</i>
<i>Propylene Glycol</i>	<i>NG ppm</i>	<i>NG ppm</i>			<i>57-55-6</i>
<i>Dipropylene Glycol Monomethyl Ether</i>	<i>100* ppm</i>	<i>100* ppm</i>			<i>34590948</i>

Note: \*Skin

## SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point *211° F 370° F* Specific Gravity (H<sub>2</sub>O = 1) *0.947* Vapor Pressure (mm Hg) *NG*

Vapor Density (Air = 1) *NG*

Solubility in Water *Slight* Reactivity in Water

Appearance and Odor *Dark Brown Liquid, Aromatic Odor* Melting Point *NG*

## SECTION 4 - FIRE & EXPLOSION DATA

Flash Point *110° F* Method Used *Closed Cup* Flammable Limits in Air % by Volume LEL Lower UEL Upper

Auto-ignition Temperature Extinguisher Media *Use dry chemical, CO<sub>2</sub>, or water spray.*

Special Fire Fighting Procedures *Cool containers if exposed to fire or high heat.*

Unusual Fire and Explosion Hazards *Product packaged in aerosol form may cause containers to burst when exposed to extreme heat.*

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

Stability Unstable  Stable  Conditions to Avoid *Avoid exposure to extreme heat.*

Incompatibility (Materials to Avoid)

Hazardous Decomposition Products *Hazardous thermal decomposition products may form such as Carbon Monoxide, Carbon Dioxide and other toxic and corrosive gases.*

Hazardous Polymerization May Occur Will Not Occur  Conditions to Avoid *Pungent fumes may be emitted on exposure to temperatures above 175° F.*

**SECTION 6 - HEALTH HAZARDS**

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

Signs and Symptoms of Exposure *May cause superficial keratitis, conjunctivitis and irritation to the stomach and digestive system.*

Medical Conditions Generally Aggravated by Exposure *Dermatitis.*

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 *Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, administer CPR.*

*Flush eyes with cool water for at least 15 minutes. Wash with cool water and soap. Drink a glass of water and induce vomiting.*

<b>ROUTES OF ENTRY</b>	1. Inhalation	<i>Burning sensation, irritation and nausea.</i>
	2. Eyes	<i>Burning sensation and irritation.</i>
	3. Skin	<i>Liquid and vapors can cause irritation.</i>
	4. Ingestion	<i>Liquid can cause nausea and a burning sensation.</i>

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

Precautions to be Taken in Handling and Storage *Packaged product is under pressure. Do not puncture, incinerate or store at temperature above 130° F.*

Other Precautions *Irritating to eyes, nose and skin. Avoid inhaling vapors and contact with skin.*

Steps to be Taken in Case Material is Released or Spilled *Extinguish all flames then soak up material in absorbent material and shovel into waste container.*

Waste Disposal Methods ( Consult Federal, State, and Local Regulations ) *Dispose of in accordance with local, state and federal regulations.*

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

Respiratory Protection ( Specify Type ) *Use chemical respirator, NIOSH approved.*

Ventilation Yes Local Exhaust Yes Mechanical ( General ) Yes Special No Other No

Protective Gloves *Use solvent-resistant rubber gloves* Eye Protection *Use chemical-resistant goggles.*

Other Protective Clothing or Equipment *Use solvent-resistant type with full jacket.*

Work/Hygienic Practices *Avoid absorption of product on clothing. If absorbed in clothing, remove and launder at once.*

**IMPORTANT**

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