



MSDS

Material Safety Data Sheet

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

HEAT
(Quick Identifier)
December 1, 2001

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: ASP, INC
2511 E Capitol DR
Appleton, WI 54911

Emergency: (920) 735-6242
Fax: (920) 735-6245

Chemical Name: Oleoresin Capsicum (Red Pepper)
Trade Name: ASP Heat (Non-Flammable Fog)
Product Class: Aerosol Self-Defense Spray
DOT Shipping Class: ORM-D Consumer Commodity

SECTION 2: HAZARDOUS INGREDIENTS

<i>Hazardous Component</i>	<i>Content</i>	<i>Carcinigen</i>
Oleoresin Capsicum	10%	No
Scoville Heat Units	2,000,000	No
Major Capsaicinoids	1.33%	No
Capsaicin CAS #404-86-4		
Nordihydrocapsaicin CAS #19408-84-5		
Dihydrocapsaicin CAS #28789-35		

Dymel 134a is the exclusive propellant. Other ingredients are trade secrets as defined in Hazard Communications Act 29 CFR 1910.1200 Para 1 (1) and Appendix D to CFR 1910.1200.

SECTION 3: PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 370 Degrees F
Specific Gravity (H₂O = 1): 1.2
Solubility in Water: Insoluble
Vapor Pressure: 80 PSI
Appearance: Red/Orange in Color
Odor: Pungent

SECTION 4: FIRE AND EXPLOSION DATA

Flash Point: 400 Degrees F
OSHA Flammability Classification: Non-Flammable
Extinguishing Media: Halon, Carbon Dioxide, Dry Chemical or Water
Special Fire Fighting Procedures: Wear respirator or self-contained breathing apparatus
Unusual Fire and Explosion Hazards: Smoke would be irritating to eyes and mucous membranes

SECTION 5: PHYSICAL HAZARDS (REACTIVITY DATA)

Stability:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	Heat, open flame, welding arcs or other high temperature sources which may induce thermal decomposition.
Materials to Avoid:	Strong acids, alkalis, oxidizing materials, possibly sodium, potassium and magnesium.

SECTION 6: HEALTH HAZARDS

Signs and Symptoms of Exposure:	Ingredients cause irritation through all routes of entry. Repeated contact may cause dermatitis. Ingestion may cause nausea, vomiting and/or diarrhea.
Medical Conditions Aggravated by Exposure:	May cause more severe, temporary effects on those persons who are asthmatics or suffer from emphysema.
Emergency and First Aid Procedures:	Remove victim from contaminated area and remove contaminated clothing. Provide fresh air, irrigate with copious amounts of cool water. Obtain medical advice if symptoms persist.
Routes of Entry:	
1. Inhalation:	OC is an inflammatory. Blood flowing to the affected area causes a perception of airway restriction. Provide fresh air.
2. Eyes:	OC is an eye irritant. Tearing and redness may occur. Only exposed subject or EMS should remove subject's contact lenses. Irrigate with cool water at least 15 minutes or until relieved. Face subject into the wind or a forced air source such as a fan.
3. Skin:	OC is a skin irritant. Over exposure with liquid OC may cause frostbite. Flush with cool water. Wash with mild soap and water.
4. Ingestion:	The severe burning of OC may cause nausea. 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 cool, dry area. Avoid direct light and heat. DO NOT expose to temperatures over 120 degrees F. Internal pressures may cause cylinders to rupture. DO NOT puncture or incinerate container.
Do not take internally:	If ingested, DO NOT INDUCE VOMITING. Consult a physician.
Steps to follow if material is spilled or released:	Wipe up small spills with absorbent material. With large spills, use respiratory equipment to avoid irritation and collect absorbent materials. If inside: Ventilate area after absorbent process, wash area with soap and cold water. Avoid prolonged breathing of vapors. If outside: Stay upwind.
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:	Not required under normal conditions of use.
Ventilation:	Yes
Protective Gloves:	Suggested (not required)
Eye Protection:	Yes. Exposure without protection in training environment is acceptable.
Other Protective Clothing or Equipment:	Not required
Work/Hygienic Practices:	Normal
Storage:	Store in cool, dry area away from sources of ignition. When storing large quantities, store in building designed and protected against fire.

**DO NOT STORE IN DIRECT SUNLIGHT
OR ABOVE 120° F**

SECTION 9: PROPELLANT

HEAT uses Dymel 134a, a non-flammable propellant. In addition, 134a is not a VOC (Volatile Organic Compound), has an ozone depletion potential (ODP) of 0, and its global warming potential is negligible.

THE INFORMATION CONTAINED HEREIN IS BASED ON TECHNICAL DATA WHICH WE BELIEVE TO BE RELIABLE. HOWEVER, SINCE THE CONDITIONS UNDER WHICH THIS INFORMATION MAY BE APPLIED ARE BEYOND OUR CONTROL, WE CAN ASSUME NO LIABILITY FOR RESULTS OF ITS APPLICATION. THIS INFORMATION SHOULD BE USED BY PERSONS HAVING SUFFICIENT SKILL TO MAKE INFORMED JUDGMENTS REGARDING ITS APPLICATION.