

# Combined Systems, Inc.

**MSDS**

Material Safety Data Sheet

Emergency Number: 1-800-255-3924 (Chem-Tel)

Non-Emergency Number: (856)-753-5007

CTS Level 2 – Foam Spray Pattern: Major Capsaicinoids 0.67%

**1. Product Identification**

MSDS: # 057a  
Date: 01/31/12  
Edition: 003

Model Number(s): 1322, 1422, 1922  
Product Type: Aerosol Defense Pepper Spray

**2. Composition**

Ingredients:	CAS NO.	Ingredients:	CAS NO.
Propylene Glycol . . . . .	000057556	1,1,1,2-Tetrafluoroethane (134a) . . . . .	000811972
Water . . . . .	N /A	Oleoresin Capsicum . . . . .	080237706
Non-Ionic Surfactant (detergent) . . . . .	N/A	N-Propyl Alcohol . . . . .	000071238

**3. Hazards Identification**

Eye Contact: May cause eye irritation upon direct contact.  
Skin Contact: May cause skin irritation to sensitive parts upon direct contact.  
Ingestion: May cause irritation to mouth, throat, and stomach upon direct contact.  
Inhalation: May cause gagging and coughing with irritation in the lungs.  
Appearance: Dark red liquid  
Odor: Slightly Sweet with pungent overtones

**4. First Aid Measures**

Eye Contact: Remove contact lenses. Flush with plenty of water for at least 15 minutes. If symptoms persist, consult a physician.  
Skin Contact: Remove contaminated clothing. Flush with water for 15 minutes. Wash with soap and water. Do not cover affected areas with creams or ointments for 6 hours.  
Ingestion: Drink large quantities of water. Do not induce vomiting. Take immediately to a hospital or physician.  
Inhalation: Remove to fresh air. Give artificial respiration if necessary. If symptoms persist, call a physician. Do not use Epinephrine.

**5. Fire and Explosion Hazards**

Flash Point: None  
NFPA Hazard Rating: Health Hazard: 1  
Fire Hazard: 0  
Reactivity Hazard: 0  
Specific Hazard: Contents under pressure. Contents will discharge under fire conditions.  
Estimate HMIS Code: Health Hazard: 1  
Flammability Hazard: 0  
Reactivity Hazard: 0  
Personal Protection: Gloves, Goggles, Respirator  
Flammability Limits @ 25° C:  
(% by volume in air) Lower: N/A  
(% by volume in air) Upper: N/A  
Recommended Extinguishing Agents: N/A

Hazardous Products formed by thermal decomposition: Irritating fumes.  
Unusual Fire or Explosion Hazards: Contents will discharge in fire  
Compressed Gases: Tetrafluoroethane  
Pressure at Room Temp.: 70 PSIG

**6. Accidental Release Measures**

Steps to be taken in case of spill or leak: Extinguish all flames. Absorb on appropriate sorbant. Shovel into waste container.  
Recommended methods of disposal: Dispose of in accordance with all federal, state, and local environmental laws.  
Fire Fighting personnel must use an Air Pack.

**7. Handling and Storage**

Storage: Store below 120° F in shipping carton provided.  
Handling: Handle with care. Keep out of the reach of children.

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## **8. Exposure Controls and Personal Protection**

Eye Protection: Wear splash goggles.  
Skin Protection: Wear protective clothing.  
Ventilation: Adequate natural or forced ventilation.  
Note: Fire Fighting personnel must use an air pack.

## **9. Physical and Chemical Properties**

Vapor Pressure @ 70° F: . . . . .	80 Psia	Evaporation Rate (Ether = 1): . . . . .	< 1
Vapor Density (Air = 1): . . . . .	< 1	PH: . . . . .	6-8
Solubility in water (WT%): . . . . .	100%	Wt. % Volatile: . . . . .	50.0
Boiling Point: . . . . .	212° F	Specific Gravity (H2O = 1): . . . . .	1.2
Appearance: . . . . .	Dark Red Liquid	Odor: Slightly Sweet with Pungent Overtones	

## **10. Stability and Reactivity**

Hazardous Products formed by thermal decomposition: Will not occur.  
Unusual Fire or Explosion Hazards: Contents will discharge in fire.  
Stability: Stable at ambient temperatures.  
Hazardous Polymerization: Will not occur.  
Hazardous Decomposition Products (Non-Thermal): None  
Incompatibility: Finely divided alkaline metals

## **11. Toxicological Information**

Toxicity: Moderate eye irritant. Oral LD 50 (RAT) >5 GM/KG. Not toxic per 16 CFR, section 1500.3 (5)  
Primary routes of entry: Skin and ingestion.  
Signs and Symptoms of Exposure: Eye irritation. Skin contact may cause local irritation or a general allergic reaction in sensitive individuals.  
Existing conditions aggravated by exposure: Certain allergies in sensitive individuals.

## **12. Ecological Information**

This material released directly or indirectly into the environment is not expected to have a significant impact.

## **13. Disposal Considerations**

Recommended methods of disposal: Dispose of in accordance with all federal, state, and local environmental laws.

## **14. Transport Information**

DOT Hazard Class: 2.2  
Proper Shipping Name: Aerosol, non-flammable  
I.D. Number: UN 1950  
Reportable Quantity: N/A  
Note: Qualifies for Consumer Commodity, ORM-D exemption. (Domestic)

## **15. Regulatory Information**

TOXIC SUBSTANCE CONTROL ACT (TSCA): All ingredients are on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

## **16. Other Information**

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