

United Tactical Systems, LLC

Safety Data Sheet (SDS)

Date Printed: 05/22/2015
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Section 1 – Identification of the substance or mixture and of the supplier

Product Name: PEPPERBALL CST™ (Shelf Life 3 Years)
Product Use: Incapacitant Projectile Fill
Manufacturer's Name: United Tactical Systems, LLC
Street Address: 28101 Ballard Dr., Unit F
City, State, Zip code: Lake Forest, IL 60045 USA
Emergency Phone Number: (800) 424-9300
(847) 367-8960
FAX Number: (847) 367-8980

Section 2 – Hazards Identification

Hazard Class: 6.1 Tear Gas Substance, Solid, N.O.S. (Ortho-Chlorobenzalmalononitrile)
Label: When classified as 6.1, UN Packaging requires a white diamond label with a '6' in the bottom corner
Eye Contact: May cause superficial keratitis and conjunctivitis
Skin Contact: May cause skin irritation to sensitive parts upon direct contact
Ingestion: May cause irritation to stomach
Inhalation: May cause irritation to lungs
Appearance: White Powder
Odor: Pungent

Section 3 – Composition / Information on ingredients

Active Components: 2.5% +/-0.02% by Weight o-Chlorobenzalmalononitrile CAS#2698-41-1
Formula: $\text{CLC}_6\text{H}_4\text{CHC}(\text{CN})_2$
Synonyms: CS
Inert Ingredients: A proprietary combination of inert carriers and dispersion agents.

Section 4 – First Aid Measures

INHALATION:

If breathing is difficult, administer oxygen. Symptoms may include: coughing, sneezing, burning eyes and skin, nausea and possibly vomiting. If high concentrations are inhaled, immediately remove subject to fresh air. Keep person calm. If not breathing, begin artificial respiration. If breathing difficulty persists, seek medical attention.

SKIN CONTACT:

In case of contact, wash skin with soap and water to prevent further exposure. Flush skin with copious amounts of cool water to minimize irritant effect. Wash contaminated clothing before reuse. Do not apply salves or dressing to affected areas.

EYE CONTACT:

Remove contact lenses and flush eyes with copious quantities of cool water. Move patient to fresh air as soon as possible.

INGESTION:

Although ingestion is unlikely and not considered a potential route of exposure, individuals should be treated as having acute non-specific airway reaction by an appropriate specialist. Do not induce vomiting.

Delayed effects: Rubefacient effects usually subside within 30 minutes. Cool water or cool circulating air will minimize discomfort.

Advice to Physician / Special Consideration: Inhalation may aggravate or initiate asthmatic episodes. Preexisting skin disorders may be aggravated by exposure to this material. Treat patient as if acute non-specific upper airway reaction.

Section 5 – Firefighting Measures

Flash Point (using Method Pensky-Martens) ASTM D 93: N/A

NFPA Hazard Rating:

Health Hazard: 2

Fire Hazard: 0

Reactivity Hazard: 1

Avoid exposure to extreme heat. Pungent fumes may be emitted on exposure to temperatures exceeding 175° F. Hazardous thermal decomposition products may form such as carbon monoxide, carbon dioxide. Contents under pressure may discharge under fire conditions.

Estimate HMIS Code:

Health Hazard: 2

Flammability Hazard: 0

Reactivity Hazard: 1

Personal Protection required: Gloves, Goggles, Respirator

Flammability Limits @ 25°C:

(% by volume in air) Lower: Not Known

(% by volume in air) Upper: Not Known

Recommended Extinguishing Agents: Dry Chemical, CO₂, or Water Spray

Cool containers if exposed to fire or high heat. Contents will discharge under fire conditions.

Firefighting personnel must use an Air Pack.

Section 6 – Accidental Release Measures

Steps to be taken in case material is accidentally released:

Respiratory protection: NIOSHA approved respirator
Ventilation: Mechanical ventilation to keep exposure below recommended limits
Protective gloves: Rubber, PVA or neoprene
Eye protection: Safety goggles or face shield
Skin Protection: Use appropriate barrier clothing

Methods for Cleaning up:

Protective Equipment: Wear goggles and use NIOSH/MSHA approved respirator or self-contained breathing apparatus (SCBA) and full protective clothing to protect from incapacitating effects of o-Chlorobenzalmalononitrile exposure.

Procedure to be Followed in Case of Leak or Spill: Evacuate area, sweep up material, place in bag and hold for waste disposal. Care should be taken to avoid causing dust to become airborne. Ventilate area and wash spill site with water after material pickup is complete.

Section 7 – Handling and Storage

Storage: Store below 120°F in shipping container provided
Handling: Handle with care. Keep out of the reach of children
General Practices: Smoking in work areas is prohibited

Section 8 – Exposure Controls / Personal Protection

Eye Protection: Wear chemical resistant goggles or face shield
Skin Protection: Wear protective clothing
Ventilation: Use chemical respirator, NIOSH Approved only
Other: Use solvent resistant materials with full jacket

Section 9 – Physical and Chemical Properties

Appearance:	White Powder
Odor:	Pungent, Highly Irritating
pH:	Not Known
Melting Point:	Not Known
Freezing Point:	N/A
Initial Boiling Point:	Not Known
Flash Point:	Not Known
Evaporation Rate:	Not Known
Upper/Lower Flammability Limits:	Not Known
Vapor Pressure:	N/A
Relative Density:	N/A
Solubilities:	Slight (Water)
Auto-Ignition Temperature:	Not Known
Decomposition Temperature:	Not Known
Viscosity:	Not Known
Specific Gravity:	Less than 1

Section 10 – Stability and Reactivity

Stability:	Stable
Incompatible/ Materials to Avoid:	Strong Oxidizing agents
Hazardous Decomposition Products:	Will Not Occur
Polymerization:	Will not occur

Section 11 – Toxicological Information

Likely Routes of Exposure: Inhalation, Dermal, Ingestion
Exposure (Short Term Effects): Respiratory and skin irritation. High inhaled amounts may cause dizziness, unconsciousness, and asphyxia. May cause a general allergic reaction to sensitive individuals.
Exposure (Long Term Effects): None

No chemical used in this formula is listed as a carcinogen in the NPT (National Toxicology Program) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by OSHA.

Section 12 – Ecological Information

This material, if released into the environment, is not expected to have any significant impact.

Section 13 – Disposable Considerations

Waste Disposal Measures: Dispose of in accordance with local, state and federal regulations.

Section 14 – Transport Information

UN Number: 3448
UN Shipping Name: Tear Gas Substance, Solid, N.O.S. (chlorobenzalmalononitrile)
Transport Hazard Class: 6.1
Hazard Label: Toxic
Packing Group: II

Section 15 – Regulatory Information

All ingredients are on the TSCA Inventory or are not required to be listed on the TSCA Inventory

Section 16 – Other information including information on preparation and revision of the SDS

Disclaimer:

This information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the manufacturer be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if manufacturer has been advised of such damages.