

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 CS/PAVA™ (Shelf Life 3
Product Use: Years) 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

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitization (category 1), H317
Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statement mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice / attention.
P337 + P313	If eye irritation persists: Get medical advice / attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

Section 3 – Composition / Information on ingredients

Active Component 1: 1.25% +/-0.02% by Weight o-Chlorobenzalmalononitrile CAS#2698-41-1

Formula: $\text{ClC}_6\text{H}_4\text{CHC}(\text{CN})_2$

Synonyms: CS

Active Component 2: 1.25% +/-0.02% by Weight PAVA

CAS#404-86-4 / 2444-46-4

Formula: $\text{C}_{17}\text{H}_{27}\text{NO}_3$

Synonyms: Capsaicin, synthetic capsaicin, capsaicin II, capsaicinoid, red pepper extract, nonivamide

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

- 5.1 Extinguishing Media**
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
- 5.2 Special hazards arising from the substance or mixture**
Carbon oxides, nitrogen oxides (NO_x)
- 5.3 Advice for firefighters**
Wear self-contained breathing apparatus for fire-fighting if necessary.
- 5.4 Further information**
No data available

Section 6 – Accidental Release Measures

Steps to be taken in case material is accidentally released:

Respiratory protection:	NIOSH 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

- 7.1 Precautions for safe handling**
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: 2 – 8 °C
Keep in a dry place.
- 7.3 Specific end uses(s)**
Apart from the uses mentioned in section 1, no other specific uses are stipulated

Section 8 – Exposure Controls / Personal Protection

- 8.1 Control parameters**
Components with workplace control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril®

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril®

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

For nuisance exposures, use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: powder
b) Odor	stinging
c) Odor Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	Melting point/range: 57°C (135°F)
f) Initial boiling point/range	no data available

g) Flash point	190°C (374°F) – closed cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapor pressure	no data available
l) Vapor density	no data available
m) Relative density	ca. 1.10 g/cm ³ at 25°C (77°F)
n) Water solubility	insoluble
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

Section 10 – Stability and Reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available
In the event of fire: see section 5

Section 11 – Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral – rat – 5,110 mg/kg

Inhalation: no data available

LD50 Dermal – rabbit - > 10,000 mg/kg

LD50 Intraperitoneal – rat – 90 mg/kg

Skin corrosion/irritation

Skin – rabbit

Result: irritating

Serious eye damage/eye irritation

Eyes – rabbit

Result: Moderate eye irritation

Respiratory or skin sensitization
Germ cell mutagenicity

Ames test

S. typhimurium

Result: Not mutagenic in Ames Test.

Result: negative

Micronucleus test

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

Inhalation – May cause respiratory irritation.

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach – Irregularities – Based on Human Evidence

Section 12 – Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio-accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

Section 13 – Disposable Considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

Section 14 – Transport Information

DOT (US)

UN number: 3335 Class: 9

Proper shipping name: Aviation regulated solid, n.o.s. (Nonivamide)

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

Not dangerous goods

IATA

UN number: 3335

Class 9

Packing group: III

Proper shipping name: Aviation regulated solid, n.o.s. (Nonivamide)

Section 15 – Regulatory Information

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right To Know Components

Nonivamide

CAS-No. 2444-46-4

New Jersey Right To Know Components

Nonivamide

CAS-No. 2444-46-4

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

HMIS Rating

Health Hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard:	0

NFPA Rating

Health Hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

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.