

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

## 1 Identification

- **Product identifier**
- **Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**
- **Article number:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Non-lethal pepper ball ammunition
- **Restrictions on use:** Contact manufacturer.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
PhaZZer Electronics, Inc.  
808 N. Hoagland Blvd  
Kissimmee, FL. 34741  
(855)-742-9937
- **Emergency telephone number:**  
855-PHAZZER  
855-742-9937

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS01 Exploding bomb

Expl. 1.4    H204 Fire or projection hazard.



GHS04 Gas cylinder

Press. Gas    H280 Contains gas under pressure; may explode if heated.



GHS06 Skull and crossbones

Acute Tox. 3    H301 Toxic if swallowed.



GHS05 Corrosion

Eye Dam. 1    H318 Causes serious eye damage.



GHS07

Skin Irrit. 2    H315 Causes skin irritation.

STOT SE 3    H335 May cause respiratory irritation.

- **Additional information:**

There are no other hazards not otherwise classified that have been identified.  
0 percent of the mixture consists of ingredient(s) of unknown toxicity.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

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Reviewed on 07/28/2015

**Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 1)

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**

Explosive symbol (GHS01) is not required for 1.4S explosives under OSHA rules.



GHS01 GHS04 GHS05 GHS06 GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Capsaicin  
potassium chlorate

- **Hazard statements**

H204 Fire or projection hazard.  
H280 Contains gas under pressure; may explode if heated.  
H301 Toxic if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

- **Precautionary statements**

P210 Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.  
P250 Do not subject to grinding/shock/friction.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P240 Ground/bond container and receiving equipment.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P373 DO NOT fight fire when fire reaches explosives.  
P370+P380 In case of fire: Evacuate area.  
P374 Fight fire with normal precautions from a reasonable distance.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a poison center/doctor if you feel unwell.  
P372 Explosion risk in case of fire.  
P330 Rinse mouth.  
P302+P352 If on skin: Wash with plenty of water.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P401 Store in accordance with local/regional/national/international regulations.  
P405 Store locked up.  
P410 Protect from sunlight.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

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Reviewed on 07/28/2015

**Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 2)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

404-86-4	Capsaicin	Acute Tox. 3, H301 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335
471-34-1	calcium carbonate	
7727-37-9	nitrogen	Press. Gas, H281
3811-04-9	potassium chlorate	Ox. Sol. 1, H271 Acute Tox. 4, H302; Acute Tox. 4, H332
1345-04-6	antimony sulphide	

- **Additional information:**

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Take affected persons out into the fresh air.
- **After inhalation:**  
Remove victim to fresh air. Provide breathing support if needed. Call a physician for more serious cases.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Seek medical treatment in case of complaints.
- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Unlikely route of exposure.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

**Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 3)

Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.  
A person vomiting while lying on their back should be turned onto their side.

- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Breathing difficulty  
Coughing  
Nausea  
Irritant to skin and mucous membranes.  
Strong irritant with the danger of severe eye injury.
- **Danger**  
Toxic if swallowed.  
May cause respiratory irritation.
- **Indication of any immediate medical attention and special treatment needed**  
If necessary oxygen respiration treatment.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
The product is not flammable.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**  
Danger of receptacles bursting because of high vapor pressure if heated.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment as required.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Ensure adequate ventilation.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.  
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

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See Section 13 for disposal information.

(Contd. of page 4)

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Handle with care. Avoid jolting, friction and impact.
- **Information about protection against explosions and fires:**  
The product is not flammable.  
Pressurised container: May burst if heated.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

**Components with limit values that require monitoring at the workplace:**

**471-34-1 calcium carbonate**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	TLV withdrawn

**7727-37-9 nitrogen**

TLV (USA)	withdrawn TLV, see App. F; simple asphyxiant
EL (Canada)	Simple asphyxiant
LMPE (Mexico)	Asfixiante simple

**1345-04-6 antimony sulphide**

PEL (USA)	Long-term value: 0.5 mg/m <sup>3</sup> as Sb
REL (USA)	Long-term value: 0.5 mg/m <sup>3</sup> as Sb
TLV (USA)	Long-term value: 0.5 mg/m <sup>3</sup> as Sb
EL (Canada)	Long-term value: 0.5 mg/m <sup>3</sup> as Sb
LMPE (Mexico)	Long-term value: 0.5 mg/m <sup>3</sup> como Sb

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

**Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 5)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Engineering controls:** No further relevant information available.
- **Breathing equipment:**  
Not required under normal conditions of use.  
For large spills, respiratory protection may be advisable.
- **Protection of hands:**  
Wear protective gloves to handle contents of damaged or leaking units.  
Wear gloves when handling deployed rounds.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Eye protection:**



Safety glasses

Follow OSHA or EU guidelines concerning the use of protective eyewear.

- **Body protection:** Not required under normal conditions of use.
- **Limitation and supervision of exposure into the environment**  
No further relevant information available.
- **Risk management measures**  
See Section 7 for additional information.  
No further relevant information available.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Solid casing containing an explosive squib, nitrogen propellant, and pepper ball ammunition
  - Color:** According to product specification
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range:** Undetermined.
  - Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Auto-ignition temperature:** Not determined.

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

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(Contd. of page 6)

- **Decomposition temperature:** Not determined.
- **Auto igniting:** Not determined.
- **Danger of explosion:** Risk of explosion if heated under confinement.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapor pressure:** Not determined.
- **Density:** Not determined.
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Other information:** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Excessive heat.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**3811-04-9 potassium chlorate**

Oral	LD50	1870 mg/kg (rat)
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- **Primary irritant effect:**
  - on the skin:** Irritant to skin and mucous membranes.
  - on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

**Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 7)

- **Subacute to chronic toxicity:** No further relevant information available.
- **Additional toxicological information:**
- **Carcinogenic categories**

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Probable Routes of Exposure**

Inhalation.

Eye contact.

Skin contact.

· **Acute effects (acute toxicity, irritation and corrosivity):**

Danger of blast or crush-type injuries.

Toxic if swallowed.

Causes serious eye damage.

May cause respiratory irritation.

· **Repeated Dose Toxicity:** No further relevant information available.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** May cause respiratory irritation.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:** Generally not hazardous for water

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

Trade name: **PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 8)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN0012
- **UN proper shipping name**
- **DOT, IMDG, IATA** CARTRIDGES FOR WEAPONS, INERT PROJECTILE
- **ADR** 0012 CARTRIDGES FOR WEAPONS, INERT PROJECTILE
- **Transport hazard class(es)**
- **DOT**
- **Class** 1.4S
- **Label** None

· **ADR**



- **Class** 1 (1.4S) Explosive substances und articles
- **Label** 1.4

· **IMDG**



- **Class** 1.4S
- **Label** 1.4S

· **IATA**



- **Class** 1.4S
- **Label** Explosive 1.4
- **Packing group**
- **DOT** II
- **ADR, IMDG, IATA** Not Regulated
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Explosive substances und articles
- **EMS Number:** F-A,S-Q
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

(Contd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

**Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 9)

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**

On passenger aircraft/rail: 25 kg  
On cargo aircraft only: 100 kg

· **ADR**

· **Excepted quantities (EQ)**

Code: E0  
Not permitted as Excepted Quantity

· **IMDG**

· **Limited quantities (LQ)**

· **Excepted quantities (EQ)**

5 kg  
Code: E0  
Not permitted as Excepted Quantity

· **UN "Model Regulation":**

UN0012, CARTRIDGES FOR WEAPONS, INERT  
PROJECTILE, 1.4S

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

1345-04-6 | antimony sulphide

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

1345-04-6 | antimony sulphide

3

(Contd. on page 11)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

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**Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 10)

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **State Right to Know Listings**

None of the ingredients is listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 07/28/2015 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Expl. 1.4: Explosives, Division 1.4

Press. Gas: Gases under pressure: Dissolved gas

Press. Gas: Gases under pressure: Refrigerated liquefied gas

Ox. Sol. 1: Oxidising Solids, Hazard Category 1

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

(Contd. on page 12)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/28/2015

Reviewed on 07/28/2015

**Trade name: PhaZZer® Cartridge (Pepper Ball Ammunition)**

(Contd. of page 11)

**Sources**Website, European Chemicals Agency (<http://http://echa.europa.eu/>)Website, US EPA Substance Registry Services (<http://http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do>)Website, Chemical Abstracts Registry, Ammerican Chemical Society (<https://www.cas.org>)

Patty's Industrial Hygiene, 6th ed. , Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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