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1 Identification

· Product identifier

· Trade name: PhaZZer® Cartridge
· Article number: No other identifiers

· Recommended use and restriction on use

Recommended use: Non-lethal ammunition
Restrictions on use: Contact manufacturer.

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

PhaZZer, LLC. 30 N. Gould St. Ste. 5368 Sheridan, WY 82801 833-742-9937

Emergency telephone number:

307-429-3345 833-742-9937

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.

· 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.

- · 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

- · Signal word Warning
- · Hazard statements

H204 Fire or projection hazard.

H280 Contains gas under pressure; may explode if heated.

· Precautionary statements

P210 Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.

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P250 Do not subject to grinding/shock/friction.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P240 Ground/bond container and receiving equipment.
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.

P372 Explosion risk in case of fire.

P401 Store in accordance with local/regional/national/international regulations.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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



Health = 0 Fire = 0 Reactivity = 3

· HMIS-ratings (scale 0 - 4)



Health = 0Fire = 0

REACTIVITY 3 Reactivity = 3

- · 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:		
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:

This is a sealed unit that will not result in exposure to the contents under normal and reaonsable conditions of use. In the unlikely event of exposure to contents, appropriate first aid should be administered.

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· After inhalation:

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Generally the product does not irritate the skin.

In cases of frostbite, rinse with plenty of water. Do not remove clothing.

Seek medical treatment in case of complaints.

· After eve 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.

Do not induce vomiting; immediately call for medical help.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

Adverse health effects are not reasonably expected from normal use of product.

- · Danger No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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.

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.

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See Section 13 for disposal information.

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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:		
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/m³ as Sb	
REL (USA)	Long-term value: 0.5 mg/m³ as Sb	
TLV (USA)	Long-term value: 0.5 mg/m³ as Sb	
EL (Canada)	Long-term value: 0.5 mg/m³ as Sb	
, ,	Long-term value: 0.5 mg/m³ como Sb	

- · 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.

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- 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.

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 and nitrogen

propellant

Color: According to product specification

Odor:OdorlessOdor threshold:pH-value:Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.
Undetermined.

Not applicable.

Flammability (solid, gaseous):
Auto-ignition temperature:
Decomposition temperature:
Not determined.

Not determined.

Not determined.

Not determined.

• **Danger of explosion:** Risk of explosion if heated under confinement.

· Explosion limits:

Lower: Not determined. Upper: Not determined.

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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)

- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · 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.

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Probable Routes of Exposure

Eye contact. Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): Danger of blast or crush-type injuries.
- · Repeated Dose Toxicity: No further relevant information available.
- · CMR effects (carcinogenity, 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 Based on available data, the classification criteria are not met.
- · 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.

- 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**CARTRIDGES FOR WEAPONS, INERT PROJECTILE

· Transport hazard class(es)

· DOT

· Class 1.4S

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

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Trade name: PhaZZer® Cartridge

· Label (Contd. of page 7)

· ADR

1.4

· Class 1 (1.4S) Explosive substances und articles

· Label 1.

·IMDG



· Class 1.4S **· Label** 1.4S

·IATA



· Class 1.4S

· Label Explosive 1.4

· Packing group

·DOT

· 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.

· 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 kgCode: E0

Not permitted as Excepted Quantity

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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

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.

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· 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: Compressed gas

Press. Gas: Gases under pressure: Refrigerated liquefied gas

Ox. Sol. 1: Oxidising Solids, Hazard Category 1 Acute Tox. 4: Acute toxicity, Hazard Category 4

Sources

Website, European Chemicals Agency (http://http://echa.europa.eu/)

Website, US EPA Substance Registry Services (http://http://ofmpub.epa.gov/sor internet/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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