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1 Identification

- · Product identifier
- · Trade name: Small Arms Ammunition (Non-Tracer rounds)
- · Recommended use and restriction on use
- · Recommended use: Small arms ammunition.
- · Restrictions on use: Contact manufacturer.
- · Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

HS Munitions Inc. (The Hunting Shack) 4406 Rathbun Lane Stevensville, MT 59870 USA Tel 406-777-2106 mail@thehuntingshack.com.

· Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585



2 Hazard(s) identification

· Classification of the substance or mixture



GHS01 Exploding bomb

Expl. 1.4 H204 Fire or projection hazard.



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1B H350 May cause cancer. Route of exposure: Inhalative.

Repr. 1A H360 May damage fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Additional information:

Health hazards reflect hightest concentration of relevant susbstances present.

To avoid risks to human health and the environment, comply with the instructions for use.

There are no other hazards not otherwise classified that have been identified.

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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 explsovies under OSHA rules.









GHS01 GHS06 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

glycerol trinitrate / nitroglycerin

2,4-dinitrotoluene

dibutyl phthalate

Rosin

dihydroxy[styphnato(2-)]dilead / lead styphnate

· Hazard statements

H204 Fire or projection hazard.

H301+H311 Toxic if swallowed or in contact with skin.

H330 Fatal if inhaled.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H350 May cause cancer. Route of exposure: Inhalative.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.

P250 Do not subject to grinding/shock/friction.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

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

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P310 Immediately call a poison center/doctor.

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.

P372 Explosion risk in case of fire.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

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(Contd. of page 2) P330 Rinse mouth. P302+P352 If on skin: Wash with plenty of water. Collect spillage. P391 P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P401 Store in accordance with local/regional/national/international regulations. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Hazard description:
- · WHMIS-symbols: Explosive products are not classified under WHMIS.
- · 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.

Components and percentges will vary dependent upon ithe choice of powders and primers. Components listed do not reflect metal/plastic casings or proejctiles. Not all present will be present in every product.

· Dangerous	components:
9004-70-0	Nitrocellulose, colloided, granular Expl. 1.1, H201
55-63-0	glycerol trinitrate / nitroglycerin Unst. Expl., H200 Flam. Liq. 2, H225 Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 STOT RE 2, H373
84-74-2	dibutyl phthalate Repr. 1B, H360
122-39-4	diphenylamine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT RE 2, H373
121-14-2	2,4-dinitrotoluene Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 2, H373
7778-74-7	potassium perchlorate Ox. Sol. 1, H271 Acute Tox. 4, H302
7757-79-1	potassium nitrate Ox. Sol. 2, H272
18282-10-5	tin dioxide (Contd. on page 4

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	(Contd. of p	pa
7782-42-5	Graphite	
13114-72-2	3-methyl-1,1-diphenylurea Acute Tox. 3, H301 Eye Irrit. 2B, H320	
86-30-6	nitrosodiphenylamine Acute Tox. 3, H301	
8050-09-7	Rosin Skin Sens. 1, H317	
10042-76-9	strontium nitrate Ox. Sol. 2, H272	
1314-18-7	strontium peroxide Ox. Liq. 2, H272	
7439-95-4	magnesium powder (pyrophoric) Pyr. Sol. 1, H250; Water-react. 1, H260	
1345-04-6	antimony sulphide	
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide Unst. Expl., H200 Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373 Acute Tox. 4, H302; Acute Tox. 4, H332	
12403-82-6	dihydroxy[styphnato(2-)]dilead / lead styphnate Unst. Expl., H200 Acute Tox. 2, H300; Acute Tox. 2, H330 Carc. 1B, H350; Repr. 2, H361; STOT RE 2, H373	
13424-46-9	lead diazide Unst. Expl., H200 Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373 Acute Tox. 4, H302; Acute Tox. 4, H332	
592-87-0	lead dithiocyanate Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373 Acute Tox. 4, H302; Acute Tox. 4, H332	
109-27-3	4-amidino-N'-nitroso-1-tetrazene-1-carboximidohydrazide Unst. Expl., H200 Acute Tox. 3, H301 Acute Tox. 4, H332	
3811-04-9	potassium chlorate Ox. Sol. 1, H271 Acute Tox. 4, H302; Acute Tox. 4, H332	
10022-31-8	barium nitrate Acute Tox. 4, H302; Acute Tox. 4, H332	
65997-17-3	Fibrous glass Carc. 1B, H350	
4682-03-5	diazodinitro phenol (DDNP) Unst. Expl., H200 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	

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Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Wash with soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

· 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.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed Blast injury if mishandled.
- Danger

Danger of blast or crush-type injuries.

Danger of impaired breathing.

· Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Water in flooding quantities.

DO NOT fight fire when fire reaches explosives.

- · For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

Fire or projection hazard.

During heating or in case of fire poisonous gases are produced.

Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.

- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

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· Additional information

Eliminate all ignition sources if safe to do so.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Ensure adequate ventilation.

Isolate area and prevent access.

- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose unusable 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.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Handle with care. Avoid jolting, friction and impact.

Use only in well ventilated areas.

Do not subject to grinding/shock/friction.

Information about protection against explosions and fires:

Fire or projection hazard.

DO NOT fight fire when fire reaches explosives.

Protect against electrostatic charges.

Emergency cooling must be available in case of nearby fire.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Protect from humidity and water.

Provide ventilation for receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep away from heat.

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· Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

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

· Control parame	eters
· Components w	rith limit values that require monitoring at the workplace:
• •	ol trinitrate / nitroglycerin
PEL (USA)	Ceiling limit value: 2 mg/m³, 0.2 ppm Skin
REL (USA)	Short-term value: 0.1 mg/m³ Skin
TLV (USA)	Long-term value: 0.46 mg/m³, 0.05 ppm Skin
EL (Canada)	Long-term value: 0.05 ppm Skin
EV (Canada)	Long-term value: 0.5 mg/m³, 0.05 ppm Skin
LMPE (Mexico)	Long-term value: 0.05 ppm PIEL
84-74-2 dibutyl	phthalate
PEL (USA)	Long-term value: 5 mg/m³
REL (USA)	Long-term value: 5 mg/m³
TLV (USA)	Long-term value: 5 mg/m³
EL (Canada)	Long-term value: 5 mg/m³
EV (Canada)	Long-term value: 5 mg/m³
LMPE (Mexico)	Long-term value: 5 mg/m³
122-39-4 diphe	nylamine
REL (USA)	Long-term value: 10 mg/m³
TLV (USA)	Long-term value: 10 mg/m³
EL (Canada)	Long-term value: 10 mg/m³
EV (Canada)	Long-term value: 10 mg/m³
LMPE (Mexico)	Long-term value: 10 mg/m³ A4
18282-10-5 tin	dioxide
REL (USA)	Long-term value: 2 mg/m³ as Sn
TLV (USA)	Long-term value: 2 mg/m³ as Sn
	(Contd. on page 8)

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		(Contd. of page 7)	
EL (Canada)	Long-term value: 2 mg/m³		
	as Sn		
EV (Canada)	Long-term value: 2 mg/m³		
	as Sn		
LMPE (Mexico)	Long-term value: 2 mg/m³		
	como Sn		
7782-42-5 Grap			
PEL (USA)	Long-term value: 15 mppcf* mg/m³ *impinger samples counted by light field techn.		
REL (USA)	Long-term value: 2.5* mg/m³ *respirable dust		
TLV (USA)	Long-term value: 2* mg/m³ all forms except graphite fibers;*resp. fraction		
EL (Canada)	Long-term value: 2 mg/m³ respirable		
EV (Canada)	Long-term value: 2 mg/m³ respirable		
LMPE (Mexico)	Long-term value: 2* mg/m³ *fracción respirable		
8050-09-7 Rosi	n		
TLV (USA)	DSEN, RSEN, L		
EL (Canada)	S		
LMPE (Mexico)			
1345-04-6 antin			
PEL (USA)	Long-term value: 0.5 mg/m³		
TEE (OOA)	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		
LMPE (Mexico)	Long-term value: 0.5 mg/m³ como Sb		
15245-44-0 lead	d 2,4,6-trinitro-m-phenylene dioxide		
EV (Canada)	Long-term value: 0.05 mg/m³ as Pb, Skin (organic compounds)		
13424-46-9 lead	13424-46-9 lead diazide		
PEL (USA)	Long-term value: 0.05 mg/m³ as Pb; See 29 CFR 1910.1025		
REL (USA)	Long-term value: 0.05* mg/m³ as Pb;*8-hr TWA; See Pocket Guide App. C		
		(Contd. on page 9)	

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	(Contd. of page 8)		
TLV (USA)	Long-term value: 0.05 mg/m³ as Pb; BEI		
EL (Canada)	Long-term value: 0.05 mg/m³ as Pb; IARC 2A, R		
592-87-0 lead o	lithiocyanate		
PEL (USA)	Long-term value: 5 mg/m³ as CN; Skin		
EV (Canada)	Long-term value: 0.05 mg/m³ as Pb, Skin (organic compounds)		
10022-31-8 bar	ium nitrate		
PEL (USA)	Long-term value: 0.5 mg/m³ as Ba		
REL (USA)	Long-term value: 0.5 mg/m³ as Ba		
TLV (USA)	Long-term value: 0.5 mg/m³ as Ba		
EL (Canada)	Long-term value: 0.5 mg/m³ as Ba		
LMPE (Mexico)	Long-term value: 0.5 mg/m³ A4; como Ba		
Ingredients with biological limit values:			
13424-46-9 lead	d diazide		
	BEI (USA) 30 μg/100 ml		
	lium: blood		
Time: not critical			
Para	ameter: Lead		

- · Additional information: No further relevant information available.
- · 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.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- · Engineering controls: No further relevant information available.
- Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
- · Protection of hands:

Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be (Contd. on page 10)

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checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses

· Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

· Limitation and supervision of exposure into the environment

No further relevant information available.

· Risk management measures No further relevant information available.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Solid material

Color: According to product specification

Odor: Characteristic
 Odor threshold: Not determined.
 pH-value: Not applicable.

· Change in condition

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

Vot applicable.

• Flammability (solid, gaseous): Fire or projection hazard.

Auto-ignition temperature: Not determined.Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

• Danger of explosion: Not determined.

· Explosion limits:

Lower: Not determined. Upper: Not determined.

• Oxidizing properties Contains oxidizing agent.

Vapor pressure: Not applicable.
Density: Not determined.
Relative density Not determined.
Vapour density Not applicable.

(Contd. on page 11)

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• Evaporation rate Not applicable.

· Solubility in / Miscibility with

Water: Variable, dependent upon product composition and packaging.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

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

· Possibility of hazardous reactions

Fire or projection hazard.

Acts as an oxidizing agent on organic materials such as wood, paper and fats.

Toxic fumes may be released if heated above the decomposition point.

- · Conditions to avoid Excessive heat.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

Leadoxide vapor

Toxic metal oxide smoke

11 Toxicological information

· Information on toxicological effects

· LD/LC5	0 valu	es that are relevant for classification:	
55-63-0	glyce	ol trinitrate / nitroglycerin	
Oral	LD50	115 mg/kg (mouse)	
		105 mg/kg (rat)	
Dermal	LD50	29 mg/kg (rat)	
		280 mg/kg (rabbit)	
84-74-2	dibuty	rl phthalate	
Oral	LD50	8000 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	
122-39-	4 diph	enylamine	
Oral	LD50	1120 mg/kg (rat)	
	1		(Contd. on page

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			(Contd. of page 11)	
	121-14-2 2,4-dinitrotoluene			
Oral	LD50	268 mg/kg (rat)		
15245-4	14-0 lea	ad 2,4,6-trinitro-m-phenylene dioxide		
Oral	LD50	650 mg/kg (rat)		
3811-04	3811-04-9 potassium chlorate			
Oral	LD50	1870 mg/kg (rat)		
10022-31-8 barium nitrate				
Oral	LD50	355 mg/kg (rat)		

- · Primary irritant effect:
- · on the skin:

Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.

· on the eye:

Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes.

· Sensitization:

Contains Rosin. May produce an allergic reaction.

Sensitization possible through skin contact.

· Additional toxicological information:

Toxic

Harmful

Irritant

Very toxic

The product can cause deformations.

Danger through skin absorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

· Carcinogenic categories

· NTP (National Toxicology Program)		
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide	R
12403-82-6	dihydroxy[styphnato(2-)]dilead / lead styphnate	R
13424-46-9	lead diazide	R
592-87-0	lead dithiocyanate	R

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Probable Routes of Exposure

Ingestion.

Inhalation.

Eye contact.

Skin contact.

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

Danger of blast or crush-type injuries.

Toxic if swallowed or in contact with skin.

· Repeated Dose Toxicity:

Chrnoic inhalaton of post-use dusts/mists/fumes/gases may cause disease.

Danger of very serious irreversible effects.

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

Muta. 2, Carc. 1B, Repr. 1A

- · Germ cell mutagenicity Suspected of causing genetic defects.
- · Carcinogenicity May cause cancer. Route of exposure: Inhalative.
- · Reproductive toxicity May damage fertility or the unborn child.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

- Toxicity
- · Aquatic toxicity: Toxic for aquatic organisms
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential May be accumulated in organism
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

Toxic for aquatic organisms

· Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Incinerate in accordance with local, state and federal regulations.

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. Residual materials should be treated as hazardous.

- · 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** Cartridges, Small Arms

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• ADR 0012 CARTRIDGES, SMALL ARMS CARTRIDGES, SMALL ARMS

· Transport hazard class(es)

· DOT



• Class 1.4S • Label 1.4

· ADR, IMDG, IATA



ClassLabel1.41.4S

· Packing group

· DOT, ADR, IMDG, IATA

• Environmental hazards: Product contains environmentally hazardous substances:

dibutyl phthalate, diphenylamine

· Marine pollutant: No

Special precautions for user
 EMS Number:
 Not applicable.
 F-A.S-Q

• Segregation groups Heavy metals and their salts (including their organometallic

compounds), chlorates, perchlorates

· 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)
 500 g
 Code: E4

Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g

· UN "Model Regulation": UN0012, CARTRIDGES, SMALL ARMS, 1.4S, II

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(Contd. on page 16)

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.

None of the ingredients is listed.			
· Section 313 (Specific toxic chemical listings):			
55-63-0	glycerol trinitrate / nitroglycerin		
84-74-2	dibutyl phthalate		
122-39-4	diphenylamine		
121-14-2	2,4-dinitrotoluene		
7757-79-1	potassium nitrate		
86-30-6	nitrosodiphenylamine		
	strontium nitrate		
1345-04-6	antimony sulphide		
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide		
12403-82-6	dihydroxy[styphnato(2-)]dilead / lead styphnate		
13424-46-9	lead diazide		
	lead dithiocyanate		
10022-31-8	barium nitrate		

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California)

Substances listed under Proposition 65 may or may not be present, dependent upon specific product concentration.

concentration.			
· Chemicals known to cause cancer:			
121-14-2	2,4-dinitrotoluene		
86-30-6	nitrosodiphenylamine		
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide		
12403-82-6	dihydroxy[styphnato(2-)]dilead / lead styphnate		
13424-46-9	lead diazide		
592-87-0	lead dithiocyanate		
· Chemicals	known to cause reproductive toxicity for females:		
84-74-2 dil	84-74-2 dibutyl phthalate		
· Chemicals	· Chemicals known to cause reproductive toxicity for males:		
84-74-2 c	libutyl phthalate		
121-14-2 2	2,4-dinitrotoluene		
· Chemicals known to cause developmental toxicity:			
84-74-2 dibutyl phthalate			

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Trade name: Small Arms Ammunition (Non-Tracer rounds)

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide	(Contd. of page 15)
	dihydroxy[styphnato(2-)]dilead / lead styphnate	
	lead diazide	
	nic categories	
_	onmental Protection Agency)	
1 1	dibutyl phthalate	D
	potassium perchlorate	NL
	nitrosodiphenylamine	B2
	lead diazide	B2
	barium nitrate	D, CBD(inh), NL(oral)
· IARC (Inter	national Agency for Research on Cancer)	
	2.4-dinitrotoluene	2B
86-30-6	nitrosodiphenylamine	3
	antimony sulphide	3
13424-46-9	lead diazide	2A
· TLV (Thres	hold Limit Value established by ACGIH)	
1 1	diphenylamine	A4
13424-46-9	lead diazide	A3
10022-31-8	barium nitrate	A4
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
121-14-2 2	,4-dinitrotoluene	
· State Right	to Know Listings	
	ingredients is listed.	
	substance listings:	
	Domestic Substances List (DSL)	
·	onents are listed on the NDSL.	
	nts are listed.	
1 1	ngredient Disclosure list (limit 0.1%)	
1 1	phenylamine	
	trosodiphenylamine	
1 1	ngredient Disclosure list (limit 1%)	
	dibutyl phthalate	
1 1	2,4-dinitrotoluene	
10022-31-8	barium nitrate	
l		

· 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.

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Trade name: Small Arms Ammunition (Non-Tracer rounds)

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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 06/11/2015 / -

· 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Expl. 1.1: Explosives, Division 1.1

Expl. 1.4: Explosives, Division 1.4

Unst. Expl.: Explosives, Unstable explosives

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Pyr. Sol. 1: Pyorphoric Solids, Hazard Category 1

Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1

Ox. Liq. 2: Oxidising Liquids, Hazard Category 2

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

Ox. Sol. 2: Oxidising Solids, Hazard Category 2

Acute Tox. 2: Acute toxicity, Hazard Category 2

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Acute Tox. 1: Acute toxicity, Hazard Category 1 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Muta. 2: Germ cell mutagenicity, Hazard Category 2

Carc. 1B: Carcinogenicity, Hazard Category 1B

Repr. 1A: Reproductive toxicity, Hazard Category 1A

Repr. 1B: Reproductive toxicity, Hazard Category 1B

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Sources

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