according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: Muzzle Blast 37mm Powder Dispersion Round, CN
- · **Article number:** 1141 (1012245)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture: Crowd Control Device
- · Uses advised against Contact manufacturer.
- · 1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:

Safariland, LLC

13386 International Parkway

Jacksonville, FL 32218

Customer Care (800) 347-1200

- · Further information obtainable from: Customer Care Department
- · 1.4 Emergency telephone number:

ChemTel Inc.

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



SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.



exploding bomb

Expl. 1.4 H204 Fire or projection hazard.



skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Eye Dam. 1 H318 Causes serious eye damage.

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Skin Irrit. 2 H315 Causes skin irritation.

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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Additional information: 0 % of the mixture consists of component(s) of unknown toxicity.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms









GHS01 GHS05 GHS06 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

2-chloroacetophenone potassium chlorate

Nitrocellulose, colloided, granular

potassium nitrate

· Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H204 Fire or projection hazard.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation. H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P250 Do not subject to grinding/shock/friction.

P260 Do not breathe dust.

P284 In case of inadequate ventilation wear respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P370+P380 In case of fire: Evacuate area.

P302+P352 IF ON SKIN: Wash with plenty of water.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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

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

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA **GHS**

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· Additional information:

Can become highly flammable in use.

· NFPA ratings (scale 0 - 4)



Health = 4 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



*3 Health = *3 □ Fire = 0 REACTIVITY | Reactivity = 0

- * Indicates a long term health hazard from repeated or prolonged exposures.
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description:

Mixture of substances listed below with nonhazardous additions.

Product will contain various combinations of the following substances. Not all substances will be in each product.

· Dangerous components:

Nitrocellulose, colloided, granular CAS: 9004-70-0

EC number: 603-037-0 ♠ Expl. 1.1, H201

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	(Cont'd. from page 3)
CAS: 7757-79-1	potassium nitrate
EINECS: 231-818-8	♠ Ox. Sol. 2, H272
CAS: 532-27-4	2-chloroacetophenone
EINECS: 208-531-1	Acute Tox. 2, H300; Acute Tox. 3, H311; Acute Tox. 1, H330
	Resp. Sens. 1, H334
	Eye Dam. 1, H318 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335
CAS: 69012-64-2	Silica-Amorphous Silica fume
EINECS: 273-761-1	substance with a Community workplace exposure limit
CAS: 55-63-0	glycerol trinitrate / nitroglycerin
EINECS: 200-240-8	
Index number: 603-034-00-X	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330
	♦ STOT RE 2, H373
	Aquatic Chronic 2, H411
	Flam. Liq. 2, H225
CAS: 1309-48-4 EINECS: 215-171-9	magnesium oxide
Index number: 025-199-09-0	substance with a Community workplace exposure limit
CAS: 7778-74-7	potassium perchlorate
EINECS: 231-912-9	⊚ Ox. Sol. 1, H271
Index number: 017-008-00-5	Acute Tox. 4, H302
CAS: 7704-34-9	sulfur
EINECS: 231-722-6	♦ Skin Irrit. 2, H315
Index number: 016-094-00-1	
CAS: 8050-09-7	Rosin
EINECS: 232-475-7	Skin Sens. 1, H317
Index number: 650-015-00-7	
CAS: 122-39-4 EINECS: 204-539-4	diphenylamine
Index number: 612-026-00-5	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT RE 2, H373
Index number: 012-020-00-3	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
· Additional information: For	the wording of the listed Hazard Statements refer to section 16.
· Notable Trace Components	
CAS: 122-39-4	diphenylamine
EINECS: 204-539-4	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331
Index number: 612-026-00-5	♦ STOT RE 2, H373
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
CAS: 12403-82-6	dihydroxy[styphnato(2-)]dilead / lead styphnate
EINECS: 235-642-2	
	Acute Tox. 3, H301; Acute Tox. 2, H330 Carc. 1B, H350; Repr. 2, H361; STOT RE 2, H373
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
	V

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

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.

Seek immediate medical advice.

Seek medical help for symptoms or if unconscious.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

Seek immediate medical help for blistering or open wounds.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· 4.2 Most important symptoms and effects, both acute and delayed

Asthma attacks

Breathing difficulty

Coughing

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Allergic reactions

Eye damage.

Irritating to respiratory system and skin.

Hazards

Danger of blast or crush-type injuries.

Danger of impaired breathing.

Danger of disturbed cardiac rhythm.

Danger of pulmonary oedema.

Toxic if swallowed or in contact with skin.

Fatal if inhaled.

· 4.3 Indication of any immediate medical attention and special treatment needed

Contains 2-chloroacetophenone. May produce an allergic reaction.

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.

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

DO NOT fight fire when fire reaches explosives.

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

Fire or projection hazard.

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

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

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Eliminate all ignition sources if safe to do so.

Evacuate area and fight fire from from the upwind side.

Cool endangered product with water spray.

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.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Protect from heat.

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to section 13.

· 6.4 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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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Handle with care. Avoid jolting, friction and impact.

Use only outdoors or in a well-ventilated area.

· Information about fire - and explosion protection:

Protect from heat.

Emergency cooling must be available in case of nearby fire.

Keep respiratory protective device available.

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

Avoid storage near extreme heat, ignition sources or open flame.

Protect from humidity and water.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

Store away from flammable substances.

- Further information about storage conditions: Store in dry conditions.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see section 7.

	with limit values that require monitoring at the workplace:	
532-27-4 2-cl	chloroacetophenone	
PEL (USA)	Long-term value: 0,3 mg/m³, 0,05 ppm	
REL (USA)	Long-term value: 0,3 mg/m³, 0,05 ppm	
TLV (USA)	Long-term value: 0,32 mg/m³, 0,05 ppm	
EL (Canada)	Long-term value: 0,05 ppm S	
EV (Canada)	Long-term value: 0,32 mg/m³, 0,05 ppm	
69012-64-2 S	Silica-Amorphous Silica fume	
TLV (USA)	TLV withdrawn	
EL (Canada)	Long-term value: 4* 1,5** mg/m³ fume *total; **respirable	
EV (Canada)	Long-term value: 2 mg/m³ respirable	
	(Cont'd.	on page

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		(Cont'd. from pag
	erol trinitrate / nitroglycerin	
PEL (USA)	Ceiling limit: 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	
1309-48-4 ma	agnesium oxide	
PEL (USA)	Long-term value: 15* mg/m³ fume; *total particulate	
TLV (USA)	Long-term value: 10* mg/m³ *as inhalable fraction	
EL (Canada)	Short-term value: 10** mg/m³ Long-term value: 10* 3** mg/m³ *inhalable fume;**respirable dust and fume	
EV (Canada)	Long-term value: 10 mg/m³ inhalable	
1314-23-4 zir	conium dioxide	
PEL (USA)	Long-term value: 5 mg/m³ as Zr	
REL (USA)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr	
TLV (USA)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr	
EL (Canada)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr	
8050-09-7 Ro	osin State of the	
TLV (USA)	DSEN, RSEN, L	
EL (Canada)	s	
7439-89-6 irc	on	
EV (Canada)	Long-term value: 1* 5** mg/m³ as iron;*salts, water-soluble;**welding fume	
122-39-4 dip	henylamine	
REL (USA)	Long-term value: 10 mg/m³	
TLV (USA)	Long-term value: 10 mg/m³	
EL (Canada)	Long-term value: 10 mg/m³	
· · · · · ·	-	(Cont'd. on pa

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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EV (Canada) Long-term value: 10 mg/m³

- **DNELs** No further relevant information available.
- · PNECs No further relevant information available.
- · 8.2 Exposure controls
- **Engineering measures**

Do not subject to grinding/shock/friction.

Use only outdoors or in a well-ventilated area.

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Respiratory protection:



Respiratory protection required.

Wear positive pressure NIOSH or European EN149 vapor respirators when deploying product in large quantities.

· Protection of hands:

None required for handling unused product; where possible, use protective gloves for handling spent rounds.

· 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 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:** Protective work clothing
- · Limitation and supervision of exposure into the environment

No further relevant information available.

Risk management measures

See Section 7 for additional information.

Organizational measures should be in place for all activities involving this product.

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SECTION 9: Physical and ch	emical properties
9.1 Information on basic physical a General Information	and chemical properties
Appearance:	
Form:	Solid metal container containing liquid and solid contents.
Colour:	According to product specification
Odour: Odour threshold:	Odourless Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Auto/Self-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Fire or projection hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	Contains oxidizing agent.
Vapour pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient (n-octanol/wat	ter): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Fire or projection hazard.

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

Reacts with flammable substances.

Reacts with strong acids and alkali.

· 10.4 Conditions to avoid

Store away from oxidising agents.

Keep ignition sources away - Do not smoke.

Cartridge may detonate if case is punctured or severely damaged.

- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Toxic metal oxide smoke

Chlorine compounds

Nitrogen oxides

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Toxic if swallowed, in contact with skin or if inhaled.

	Tokto ii ottaliottoa, iii oottaot tiitii ottii ottii iiiitaloa.		
· LD/LC5	· LD/LC50 values relevant for classification:		
532-27-	532-27-4 2-chloroacetophenone		
Oral	LD50	50 mg/kg (rat)	
55-63-0	55-63-0 glycerol trinitrate / nitroglycerin		
Oral	LD50	115 mg/kg (mouse)	
		105 mg/kg (rat)	
Dermal	LD50	29 mg/kg (rat)	
		280 mg/kg (rabbit)	
122-39-	122-39-4 diphenylamine		
Oral	LD50	1120 mg/kg (rat)	

- · Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eve damage.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Additional toxicological information:

Normal handling of the undeployed product poses little or no health hazards, One should avoid inhalation by wearing appropriate respiratory protection when exposed to the chemical ingredients of the product above listed TLV's or when exposed to the post ignition by-products. This product is a cansister which

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the product is used, particles may be generated which may be irritating to the eyes and the respiratory tract.

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

Danger through skin adsorption.

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

Danger of blast or crush-type injuries.

Toxic if swallowed, in contact with skin or if inhaled.

Causes serious eye damage.

May cause respiratory irritation.

Irritating to skin.

Repeated dose toxicity:

Repeated exposures may result in skin and/or respiratory sensitivity.

May cause damage to organs through prolonged or repeated exposure.

- · 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.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · **Aquatic toxicity:** No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Harmful to aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. 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 packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport inform	nation
· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN0301
· 14.2 UN proper shipping name · DOT	Ammunition Tear-producing with burster, expelling charge
· ADR	0301 AMMUNITION TEAR-PRODUCING with burste expelling charge or propelling charge
· IMDG, IATA	AMMUNITION TEAR-PRODUCING with burste expelling charge or propelling charge
· 14.3 Transport hazard class(es)	
· DOT	
1.4 TOXIC CORROSIVE	
· Class · Label	1.4 1.4G, 6.1, 8
· ADR	
1.4	
· Class	1.4 (_)
· Label	1.4G+6.1+8

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	(Cont'd. from page 13)
· IMDG	
1.4 G	
· Class · Label	1.4 1.4G/6.1/8
·IATA	
1.4 G 8	
· Class · Label	1.4 1.4G (6.1, 8)
· 14.4 Packing group · DOT, ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (IATA):	No
Cargo Aircraft Only.	
· 14.6 Special precautions for user · EMS Number:	Not applicable. F-B,S-Z
14.7 Transport in bulk according to Annex	
Marpol and the IBC Code	Not applicable.
· Transport/Additional information: 	
· Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity
·IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN0301, 0301, ENVIRONMENTALLY HAZARDOUS, 1.4G (6.1+8), II

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SECTION	15: Regulatory information
· 15.1 Safety · United Stat · SARA	, health and environmental regulations/legislation specific for the substance or mixture es (USA)
· Section 355	5 (extremely hazardous substances):
None of the	ingredients are listed.
· Section 313	3 (Specific toxic chemical listings):
7757-79-1	potassium nitrate
532-27-4	2-chloroacetophenone
55-63-0	glycerol trinitrate / nitroglycerin
· TSCA (Toxi	c Substances Control Act):
All ingredier	its are listed.
Proposition	n 65 (California):
Chemicals	known to cause cancer:
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
· 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 are listed.
	known to cause developmental toxicity: ace quantities.
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
· Carcinoger	ic Categories
· EPA (Enviro	onmental Protection Agency)
7778-74-7	potassium perchlorate NI
IARC (Inter	national Agency for Research on Cancer)
69012-64-2	Silica-Amorphous Silica fume
7631-86-9	silicon dioxide
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the	ingredients are listed.
· Canada	
	Domestic Substances List (DSL)
	onents are listed on the NDSL.
	Nitrocellulose, colloided, granular
	potassium nitrate
	carnuba wax
	Silica-Amorphous Silica fume
55-63-0	10,
1309-48-4	magnesium oxide
	(Cont'd. on page 1

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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7770 74 7	(Cont'd. from page 15)
///8-/4-/	potassium perchlorate
7631-86-9	silicon dioxide
7704-34-9	sulfur
7440-44-0	carbon
1314-23-4	zirconium dioxide
8050-09-7	Rosin
16291-96-6	charcoal
85-98-3	1,3-diethyldiphenylurea
7439-89-6	iron
· Canadian II	ngredient Disclosure list (limit 0.1%)
122-39-4 di	phenylamine
· Canadian II	ngredient Disclosure list (limit 1%)
532-27-4	2-chloroacetophenone
1309-48-4	magnesium oxide
7631-86-9	silicon dioxide

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I

None of the ingredients are listed.

- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

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

SECTION 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.

· Relevant phrases

H200 Unstable explosives.

H201 Explosive; mass explosion hazard.

H225 Highly flammable liquid and vapour.

H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

(Cont'd. on page 17)

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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H330 Fatal if inhaled.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

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

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. 4: Acute toxicity, Hazard Category 4

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 1: Acute toxicity, Hazard Category 1

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

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

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

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

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

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· Sources

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