

GHS

Printing date: September 18, 2014

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SECTION 1: I undertaking	dentification of the substance/mixture and of the company/
· 1.1 Product identi	fier
· Trade name: <u>37MI</u>	M Powder Ferret - CS
	192 i fied uses of the substance or mixture and uses advised against information available.
 Application of the 	substance / the mixture Explosive product.
Manufacturer/Sup Safariland, LLC 13386 International Jacksonville, FL 32 Customer Care (80	I Parkway 1218
• 1.4 Emergency tel ChemTel Inc. (800)255-3924, +1	
SECTION 2: Ha	zards identification
 Classification acc 	of the substance or mixture ording to Regulation (EC) No 1272/2008 zard Statements are applicable only to the EU regulations and not the US GHS pomb
Expl. 1.4	H204 Fire or projection hazard.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Acute Tox. 4	H302 Harmful if swallowed.
	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

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	according to Directive 67/548/EEC or Directive 1999/45/EC
Xn; Harmfu R20/22:	Harmful by inhalation and if swallowed.
✗ Xn; Sensiti R42/43:	May cause sensitisation by inhalation and skin contact.
\mathbf{X} Xi; Irritant	
R36/37/38:	Irritating to eyes, respiratory system and skin.
85-44-52/53:	Heating may cause an explosion. Risk of explosion if heated under confinement. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The product ha	oncerning particular hazards for human and environment: is to be labelled due to the calculation procedure of the "General Classification guideline for the EU" in the latest valid version.
The classifica	tion is according to the latest editions of the EU-lists, and extended by company and
	tion is in accordance with the latest editions of international substances lists, and is by information from technical literature and by information provided by the company.
Hazard pictog	
Signal word D	anger
[(2-chloropheng glycerol trinitrat Rosin diphenylamine Hazard statem The following regulation: H41 H204 Fire or pr	nents Hazard Statements are applicable only to the EU regulations and not the US GHS 2. rojection hazard.
H334 May caus	skin irritation. serious eye irritation. se allergy or asthma symptoms or breathing difficulties if inhaled.
	se an allergic skin reaction. se respiratory irritation.

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(Contd. of page 2) H412 Harmful to aquatic life with long lasting effects. · Precautionary statements The following Precautionary Statements are applicable only to the general GHS regulations and not the specific CLP regulation: P374. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P250 Do not subject to grinding/shock/friction. P260 Do not breathe dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. P285 Wear protective gloves/protective clothing/eye protection/face protection. P280 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. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P342+P311 P374 Fight fire with normal precautions from a reasonable distance. P372 Explosion risk in case of fire. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P403+P233 Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · Additional information: Can become highly flammable in use. · Hazard description: · WHMIS-symbols: D1B - Toxic material causing immediate and serious toxic effects D2A - Very toxic material causing other toxic effects E - Corrosive material F - Dangerously reactive material · NFPA ratings (scale 0 - 4) Health = 4Fire = 0Reactivity = 3 · HMIS-ratings (scale 0 - 4) *3 Health = *3 HEALTH FIRE 0 Fire = 0REACTIVITY 3 Reactivity = 3 Warning: Contains lead salt(s). Long-term health hazard. HMIS Long Term Health Hazard Substances 122-39-4 diphenylamine (Contd. on page 4)

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· 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.

CAS: 1309-48-4 EINECS: 215-171-9	magnesium oxide substance with a Community workplace exposure limit	40-60%
Index number: 025-199-09-0		
CAS: 2698-41-1 EINECS: 220-278-9	[(2-chlorophenyl)methylene]malononitrile ☑ T R25; 🗙 Xn R42/43; 🎇 N R50	20-40%
EINEG3. 220-270-9	Acute Tox. 3, H301	
	🚯 Resp. Sens. 1, H334	
	Aquatic Acute 1, H400 Skin Sens. 1, H317	
CAS: 9004-70-0	Nitrocellulose, colloided, granular	5-10%
EC number: 603-037-0	E R3	0 10/0
	📀 Expl. 1.1, H201	
CAS: 55-63-0	glycerol trinitrate	5-10%
EINECS: 200-240-8 Index number: 603-034-00-X	i	
	Vinst. Expl., H200	
	 Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 STOT RE 2, H373 	
	Aquatic Chronic 2, H411	
	Flam. Liq. 2, H225	

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CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate O R8	1-5%
	🔞 Ox. Sol. 2, H272	
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7	Rosin	< 1,0%
CAS: 7704-34-9 EINECS: 231-722-6 Index number: 016-094-00-1	Sulfur Sulfur Xi R38 ♦ Skin Irrit. 2, H315	< 1,0%
CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5	diphenylamine T R23/24/25; WN R50/53 R33 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	< 1,0%
040.05.00.0	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	4.00/
CAS: 85-98-3 EINECS: 201-645-2	1,3-diethyldiphenylurea Xn R22 ♦ Acute Tox. 4, H302 Aquatic Chronic 3, H412	< 1,0%
CAS: 7440-50-8 EINECS: 231-159-6	copper substance with a Community workplace exposure limit	< 1,0%
CAS: 7440-66-6	zinc metal N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 1,0%
· Additional information: For	the wording of the listed risk phrases refer to section 16.	
· Notable Trace Components	(≤ 0,1% w/w)	
CAS: 15245-44-0 EINECS: 239-290-0 Index number: 609-019-00-4		3
	 Unst. Expl., H200 Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Acute Tox. 4, H332 	

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. Do not leave affected persons unattended. Remove breathing equipment only after contaminated clothing have been completely removed.
 After inhalation: Remove victim to fresh air. Seek immediate medical advice.

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Provide oxygen treatment if affected person has difficulty breathing.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· After skin contact:
Immediately remove any clothing soiled by the product.
Brush off loose particles from skin.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· 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: 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
Allergic reactions
Blast injury if mishandled.
May cause respiratory irritation.
Breathing difficulty
Coughing
Irritant to eyes.
Irritant to skin and mucous membranes.
· Hazards
Danger of blast or crush-type injuries. Danger of impaired breathing.

4.3 Indication of any immediate medical attention and special treatment needed
Product may produce physical injury if mishandled. Treatment of these injuries should be based on the
blast and compression effects.
Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.
Monitor circulation, possible shock treatment.
Treat skin and mucous membrane with antihistamine and corticoid preparations.
If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

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.

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

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· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

· Additional information

Cool endangered receptacles with water spray.

Evacuate area and fight fire from from the upwind side.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Eliminate all ignition sources if safe to do so.

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.

Remove persons from danger area.

Ensure adequate ventilation

Protect from heat.

Isolate area and prevent access.

· 6.2 Environmental precautions: No special measures required.

· 6.3 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. Clean the affected area carefully; suitable cleaners are: Warm water and cleansing agent • 6.4 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.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Handle with care. Avoid jolting, friction and impact. Avoid breathing dust

Use only in well ventilated areas.

• Information about fire - and explosion protection: Protect from heat. Keep respiratory protective device available.

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Emergency cooling must be available in case of nearby fire.

 \cdot 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.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

• 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 item 7.

· 8.1 Control parameters

0.1 0011101	
•	with limit values that require monitoring at the workplace:
1309-48-4 m	agnesium oxide
PEL (USA)	Long-term value: 15* mg/m ³ 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
2698-41-1 [(2	2-chlorophenyl)methylene]malononitrile
PEL (USA)	Long-term value: 0,4 mg/m ³ , 0,05 ppm
REL (USA)	Ceiling limit: 0,4 mg/m³, 0,05 ppm Skin
TLV (USA)	Ceiling limit: 0,39 mg/m³, 0,05 ppm Skin
EL (Canada)	Ceiling limit: 0,05 ppm Skin
EV (Canada)	Ceiling limit: 0,4 mg/m³, 0,05 ppm Skin
55-63-0 glyc	erol trinitrate
PEL (USA)	Ceiling limit: 2 mg/m³, 0,2 ppm Skin
REL (USA)	Short-term value: 0,1 mg/m³ Skin
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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	
8050-09-7 Ro	osin	
TLV (USA)	DSEN, RSEN, L	
EL (Canada)	S	
15245-44-0 16	ead 2,4,6-trinitro-m-phenylene dioxide	
EV (Canada)	Long-term value: 0,05 mg/m ³ as Pb, Skin (organic compounds)	
122-39-4 dip	henylamine	
REL (USA)	Long-term value: 10 mg/m ³	
TLV (USA)	Long-term value: 10 mg/m ³	
EL (Canada)	Long-term value: 10 mg/m ³	
EV (Canada)	Long-term value: 10 mg/m ³	
7440-50-8 co	pper	
PEL (USA)	Long-term value: 1* 0,1** mg/m ³ as Cu *dusts and mists **fume	
REL (USA)	Long-term value: 1* 0,1** mg/m ³ as Cu *dusts and mists **fume	
TLV (USA)	Long-term value: 1* 0,2** mg/m ³ *dusts and mists; **fume; as Cu	
EL (Canada)	Long-term value: 1* 0,2** mg/m ³ *dusts and mists; **fume, as Cu	
EV (Canada)	Long-term value: 0,2* 1** mg/m ³ as copper, *fume;**dust and mists	
· PNECs No fu	rther relevant information available. Irther relevant information available. I formation: The lists valid during the making were used as basis.	
General prot The usual prot Immediately r Do not inhale Avoid contact Keep away fr	e controls bective equipment: ecctive and hygienic measures: eccautionary measures are to be adhered to when handling chemicals. remove all soiled and contaminated clothing. dust / smoke / mist. t with the eyes and skin. om foodstuffs, beverages and feed. before breaks and at the end of work.	(Contd. on page 10)

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· Respiratory protection:



Respiratory protection required.

· Protection of hands:



Protective gloves

Wear gloves when handling deployed rounds.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· 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.

No further relevant information available.

SECTION 9: Physical and chemical properties

- \cdot 9.1 Information on basic physical and chemical properties
- General Information
- Appearance: Form:
- Colour:
- · Odour:
- · Odour threshold:
- · pH-value:

Solid metal container containing liquid and solid contents. According to product specification Odourless Not determined.

- Not applicable.
- Change in condition
 Melting point/Melting range: Not Determined.
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Boiling point/Boiling range:	Undetermined.	
· 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:	Heating may cause an explosion.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapour pressure:	Not applicable.	
 Density: Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with water: 	Insoluble.	
· Partition coefficient (n-octanol/water): Not determined.	
 Viscosity: Dynamic: Kinematic: 9.2 Other information 	Not applicable. Not applicable. No further relevant information available.	

SECTION 10: Stability and reactivity

 10.1 Reactivity 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 	
Danger of explosion.	
Toxic fumes may be released if heated above the decomposition point.	
Contact with acids releases toxic gases.	
Acts as an oxidising agent on organic materials such as wood, paper and fats.	
Reacts with strong alkali.	
• 10.4 Conditions to avoid Sources of ignition, open flame, incompatible materials.	
10.5 Incompatible materials: No further relevant information available.	
· 10.6 Hazardous decomposition products:	
Carbon monoxide and carbon dioxide	
Nitrogen oxides	
	(0

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Sulphur oxides (SOx)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

2698-41-1 [(2-chlorophenyl)methylene]malononitrile

Oral LD50 178 mg/kg (rat)

55-63-0 glycerol trinitrate

Oral LD50 115 mg/kg (mouse)

105 mg/kg (rat)

Dermal LD50 29 mg/kg (rat)

280 mg/kg (rabbit)

122-39-4 diphenylamine

Oral LD50 1120 mg/kg (rat)

· Primary irritant effect:

Effects based on exposure to dusts/mists/spray/vapours released during deployment. Unused product does not posess these effects.

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitisation:

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

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 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.

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant Harmful

Danger through skin adsorption.

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

- · Acute effects (acute toxicity, irritation and corrosivity):
- Inhalation may cause irritation to the respiratory system.
- · Repeated dose toxicity:

May cause damage to organs through prolonged or repeated exposure.

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

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SECTION 12: Ecological information
· 12.1 Toxicity
Aquatic toxicity:
The product contains materials that are harmful to the environment.
2698-41-1 [(2-chlorophenyl)methylene]malononitrile
EC50 0,2-0,3 mg/kg (Oncorhynchus mykiss)
96 H
12.2 Persistence and degradability No further relevant information available.
• 12.3 Bioaccumulative potential May be accumulated in organism
 12.4 Mobility in soil No further relevant information available. Ecotoxical effects:
• Remark: Harmful to fish
· Additional ecological information:
· General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary
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.
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. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
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 information

· 14.1 UN-Number

· DOT, ADR, IMDG, IATA

UN0301

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14.2 UN proper shipping name DOT, IMDG, IATA	(Contd. of page
DOT, IMDG, IATA	Ammunition Toor producing with hurston, expell
400	Ammunition Tear-producing with burster, expell charge or propelling charge
ADR	0301 Ammunition Tear-producing with burst expelling charge or propelling charge
14.3 Transport hazard class(es)	
DOT	
Class	1.4
Label	1.4G+6.1+8
ADR, IMDG	
Class	1.4
Label	1.4G+6.1+8
ΙΑΤΑ	
Class	1.4G
Label	1.4G+6.1+8
14.4 Packing group	
DOT, ADR, IMDG, IATA 14.5 Environmental hazards:	II
Marine pollutant:	No
Special marking (IATA):	
Cargo Aircraft Only.	
14.6 Special precautions for user	Not applicable.
EMS Number:	<u>F-A</u> ,S-Q
14.7 Transport in bulk according to Annex	ll of
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	UN0301, Ammunition Tear-producing with burst expelling charge or propelling charge, 1.4G (6.1+8), I

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 15.1 Safety, health and environmental regulations/legislation specific for United States (USA) SARA 	the substance or mixtur
• Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
55-63-0 glycerol trinitrate	
7757-79-1 potassium nitrate	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
Proposition 65 (California):	
Chemicals known to cause cancer:	
Present in trace quantities.	
15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide	
• Chemicals known to cause reproductive toxicity for females: Present in trace quantities.	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males: Present in trace quantities.	
None of the ingredients is listed.	
• Chemicals known to cause developmental toxicity: Present in trace quantities.	
15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide	
· Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
7440-50-8 copper	
· IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
-	
• TLV (Threshold Limit Value established by ACGIH)	_
1309-48-4 magnesium oxide	A
2698-41-1 [(2-chlorophenyl)methylene]malononitrile	A
122-39-4 diphenylamine	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· Canada	
Canadian Domestic Substances List (DSL)	
All ingredients are listed.	

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· Canadian Ingredient Disclosure list (limit 0.1%)

122-39-4 diphenylamine

· Canadian Ingredient Disclosure list (limit 1%)

1309-48-4 magnesium oxide

2698-41-1 [(2-chlorophenyl)methylene]malononitrile

· 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.

Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is 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

····· P······			
H200	Unstable explosives.		
H201	Explosive; mass explosion hazard.		
H225	Highly flammable liquid and vapour.		
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.		
H330	Fatal if inhaled.		
H331	Toxic if inhaled.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
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.		
H412	Harmful to aquatic life with long lasting effects.		
R22	Harmful if swallowed.		
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.		
R25	Toxic if swallowed.		
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.		
R3	Extreme risk of explosion by shock, friction, fire or other sources of ignition.		
R33	Danger of cumulative effects.		
R38	Irritating to skin.		
R42/43	May cause sensitisation by inhalation and skin contact.		
R43	May cause sensitisation by skin contact.		
		(Contd. on page 17)	

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(Contd. of page 16) R50 Very toxic to aquatic organisms. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R8 Contact with combustible material may cause fire. 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) 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 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. 2: Serious eye damage/eye irritation, Hazard Category 2 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 SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com