

GHS

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SECTION 1: undertaking	Identification of the substa	ince/mixture and of the company/
· 1.1 Product iden	tifier	
· Trade name: <u>40N</u>	IM Powder Ferret - CS	
	1292 htified uses of the substance or mixtu It information available.	ire and uses advised against
· Application of th	e substance / the mixture Explosive pr	roduct.
Manufacturer/Su Safariland, LLC 13386 Internation Jacksonville, FL 3 Customer Care (8)	al Parkway 2218	epartment
• 1.4 Emergency te ChemTel Inc. (800)255-3924, +7	elephone number: 1 (813)248-0585	
SECTION 2: II	azards identification	
· Classification ac		2 008 y to the EU regulations and not the US GHS
Expl. 1.4	H204 Fire or projection hazard.	
health haz	zard	
Resp. Sens. 1	H334 May cause allergy or asthma sy	mptoms or breathing difficulties if inhaled.
Acute Tox. 4	H302 Harmful if swallowed.	
Skin Irrit. 2	H315 Causes skin irritation.	
Eye Irrit. 2	H319 Causes serious eye irritation.	
Skin Sens. 1	H317 May cause an allergic skin react	tion.
STOT SE 3		
0101023	H335 May cause respiratory irritation.	

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	according to Directive 67/548/EEC or Directive 1999/45/EC
Xn; Harmf	
R20/22:	Harmful by inhalation and if swallowed.
🗙 Xn; Sensit	ising
R42/43:	May cause sensitisation by inhalation and skin contact.
🗙 Xi; Irritant	
R36/37/38:	Irritating to eyes, respiratory system and skin.
R5-44-52/53:	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: as to be labelled due to the calculation procedure of the "General Classification guideline for f the EU" in the latest valid version.
The classifica	ation is according to the latest editions of the EU-lists, and extended by company and
	ation 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.
	ording to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. grams
· Signal word [Danger
[(2-chlorophen glycerol trinitra Rosin diphenylamine • Hazard staten The following regulation: H4 [•]	nents Hazard Statements are applicable only to the EU regulations and not the US GHS 12. rojection hazard. if swallowed.
H319 Causes H334 May cau H317 May cau	serious eye irritation. se allergy or asthma symptoms or breathing difficulties if inhaled. se an allergic skin reaction.
H335 May cau	se respiratory irritation. (Contd. on page 3)

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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. P285 In case of inadequate ventilation wear respiratory protection. 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. * - Indicates a long term health hazard from repeated or prolonged exposures. · HMIS Long Term Health Hazard Substances 122-39-4 diphenvlamine (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	magnesium oxide	40-60%
EINECS: 215-171-9 Index number: 025-199-09-0	substance with a Community workplace exposure limit	
CAS: 2698-41-1 EINECS: 220-278-9	[(2-chlorophenyl)methylene]malononitrile TR25; Xn R42/43; NR50 Acute Tox. 3, H301 Resp. Sens. 1, H334 Aquatic Acute 1, H400 Skin Sens. 1, H317	20-40%
CAS: 112945-52-5	Silicon Dioxide (Amorphous)	5-10%
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular E R3 Expl. 1.1, H201	5-10%
CAS: 55-63-0 EINECS: 200-240-8 Index number: 603-034-00-X	glycerol trinitrate T + R26/27/28; E R3; N R51/53 R33 Unst. 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	5-10%

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CAS: 7757-79-1	potassium nitrate	< 1,0%
EINECS: 231-818-8	O R8	
	🔞 Ox. Sol. 2, H272	
CAS: 8050-09-7	Rosin	< 1,0%
EINECS: 232-475-7	🗙 Xi R43	
Index number: 650-015-00-	7 🚺 Skin Sens. 1, H317	
CAS: 7440-50-8	copper	< 1,0%
EINECS: 231-159-6	substance with a Community workplace exposure limit	
CAS: 122-39-4	diphenylamine	< 1,0%
EINECS: 204-539-4	😡 T R23/24/25; 🌄 N R50/53	
Index number: 612-026-00-		
	line state Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	
	🚯 STOT RE 2, H373	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 85-98-3	1,3-diethyldiphenylurea	< 1,0%
EINECS: 201-645-2	🗙 Xn R22	
	🚺 Acute Tox. 4, H302	
	Aquatic Chronic 3, H412	
Additional information: For	or the wording of the listed risk phrases refer to section 16.	
Notable Trace Componen	ts (≤ 0,1% w/w)	
CAS: 15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide	
EINECS: 239-290-0	😡 T Repr. Cat. 1, 3 R61; 💓 Xn R62-20/22; 🎆 E R3; 🌄 N R50/53	3
Index number: 609-019-00-	4 R33	
	🔶 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.

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.

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(Contd. of page 5) · 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. 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. (Contd. on page 7)

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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. Emergency cooling must be available in case of nearby fire.
 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.

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Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

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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

• Ingredients with limit values that require monitoring at the workplace:			
1309-48-4 ma	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/m ³ Long-term value: 10* 3** mg/m ³ *inhalable fume;**respirable dust and fume		
EV (Canada)	Long-term value: 10 mg/m³ inhalable		
2698-41-1 [(2	e-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 glyce	erol trinitrate		
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		
8050-09-7 Ro	8050-09-7 Rosin		
TLV (USA)	DSEN, RSEN, L		
L	(Contd. on page 9)		

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EL (Canada)		ontd. of page 8
· /	ead 2,4,6-trinitro-m-phenylene dioxide	
	Long-term value: 0,05 mg/m ³ as Pb, Skin (organic compounds)	
122-39-4 dipł	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 со	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/m³ 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/m³ *dusts and mists; **fume, as Cu	
EV (Canada)	Long-term value: 0,2* 1** mg/m³ as copper, *fume;**dust and mists	
• PNECs No fu	rther relevant information available. rther relevant information available. formation: The lists valid during the making were used as basis.	
General prot The usual pre Immediately r Do not inhale Avoid contact Keep away fro	ective equipment: ective and hygienic measures: ecautionary measures are to be adhered to when handling chemicals. emove all soiled and contaminated clothing. dust / smoke / mist. with the eyes and skin. om foodstuffs, beverages and feed. before breaks and at the end of work.	
Resp	iratory protection required.	
· Protection of	f hands:	
Prote	ective gloves	
	when handling deployed rounds. Iterial has to be impermeable and resistant to the product/ the substance/ the prep	Daration. td. on page 1

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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

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Appearance:
- Form: Solid metal container containing liquid and solid contents. Colour: According to product specification · Odour: Odourless · Odour threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range: Not Determined. 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.

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Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
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-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
9.2 Other information	No further relevant information available.	

SECTION TO: 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 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)

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55-63-0 glycerol trinitrate	(Contd. of page 1
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 d	luring deployment. Unused produ
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 h	azards. One should avoid inhalati
by wearing appropriate respiratory protection when exposed to the	
above listed TLV's or when exposed to the post ignition by-product	s. This product is a cansister whi
contains the various components completely sealed within. There	
product, no exposure to any harmful materials will occur. When the	e product is used, particles may
generated which may be irritating to the eyes and the respiratory tract.	lation mathed of the Constal F
The product shows the following dangers according to the calcu Classification Guidelines for Preparations as issued in the latest version	
Irritant	
Harmful	
Danger through skin adsorption.	
Severe allergic skin reaction, bronchial spasms and anaphylactic shoc	k 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	2
Repeated exposures may result in skin and/or respiratory sensitivity.	
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 a	vailable.
The isolotonio and acgladability no future relevant into intalion a	
12.3 Bioaccumulative potential May be accumulated in organism	
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- · 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
- · 14.2 UN proper shipping name
- · DOT, IMDG, IATA

UN0301

Ammunition Tear-producing with burster, expelling charge or propelling charge 0301 Ammunition Tear-producing with burster, expelling charge or propelling charge

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· 14.3 Transport hazard class(es)	(Contd. of page 1
· DOT	
· Class	1.4
· Label	1.4G+6.1+8
· ADR, IMDG	
· Class	1.4
· Label	1.4G+6.1+8
·IATA	
· Class	1.4G
· Label	1.4G+6.1+8
 · 14.4 Packing group · DOT, ADR, IMDG, IATA 	П
• 14.5 Environmental hazards:	11
· 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 Anne	
MARPOL73/78 and the IBC Code	Not applicable. UN0301, Ammunition Tear-producing with burste
· UN "Model Regulation":	expelling charge or propelling charge, 1.4G (6.1+8), II

SECTION 15: Regulatory information

 \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot United States (USA)

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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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	ļ
122-39-4 diphenylamine	F
· 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.	
· 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	
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\cdot 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

- 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.
- 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.
- R42/43 May cause sensitisation by inhalation and skin contact.
- R43 May cause sensitisation by skin contact.
- 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)

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IMDG: International Maritime Code for Dangerous Goods	(contai of page 10)
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	
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