

# Safety Data Sheet

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

Printing date December 11, 2015

Revision: December 11, 2015

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

- **1.1 Product identifier**
- **Trade name:** **Ferret® 12-Gauge Liquid Barricade Round, Inert**
- **Article number:** 3013 (1011803)
- **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:** Practice munition / 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**  
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).  
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                H311 Toxic in contact with skin.

Acute Tox. 3                H331 Toxic if inhaled.



health hazard

Carc. 2                      H351 Suspected of causing cancer.

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



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Acute Tox. 4      H302 Harmful if swallowed.  
Skin Sens. 1      H317 May cause an allergic skin reaction.

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

· **Additional information:**

There are no other hazards not otherwise classified that have been identified.  
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 additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

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

· **Hazard pictograms**



GHS01 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

glycerol trinitrate / nitroglycerin  
dichloromethane  
Rosin  
diphenylamine

· **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.  
H302      Harmful if swallowed.  
H311+H331 Toxic in contact with skin or if inhaled.  
H317      May cause an allergic skin reaction.  
H351      Suspected of causing cancer.  
H373      May cause damage to organs through prolonged or repeated exposure.  
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.

P201      Obtain special instructions before use.  
P202      Do not handle until all safety precautions have been read and understood.  
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 mist/vapours/spray.  
P264      Wash thoroughly after handling.  
P280      Wear protective gloves/protective clothing/eye protection/face protection.  
P270      Do not eat, drink or smoke when using this product.  
P271      Use only outdoors or in a well-ventilated area.

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- P272 Contaminated work clothing should not be allowed out of the workplace.  
 P373 DO NOT fight fire when fire reaches explosives.  
 P370+P380 In case of fire: Evacuate area.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P330 Rinse mouth.  
 P372 Explosion risk in case of fire.  
 P311 Call a POISON CENTER/doctor.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
 P401 Store in accordance with local/regional/national/international regulations.  
 P405 Store locked up.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Can become highly flammable in use.

· **NFPA ratings (scale 0 - 4)**



Health = 2  
 Fire = 3  
 Reactivity = 3

· **HMIS-ratings (scale 0 - 4)**



Health = 2  
 Fire = 3  
 Reactivity = 3

Warning: Contains lead salt(s). Long-term health hazard.

\* - 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**

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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.

#### · **Dangerous components:**

CAS: 75-09-2 EINECS: 200-838-9 Index number: 602-004-00-3	dichloromethane ----- ☠ Carc. 2, H351	50-100%
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular ----- ☠ Expl. 1.1, H201	10-25%
CAS: 55-63-0 EINECS: 200-240-8 Index number: 603-034-00-X	glycerol trinitrate / nitroglycerin ----- ☠ 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	10-25%
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate ----- ☠ Ox. Sol. 2, H272	≤ 2,5%
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7	Rosin ----- ☠ Skin Sens. 1, H317	≤ 2,5%
CAS: 7439-89-6 EINECS: 231-096-4	iron substance with a Community workplace exposure limit	≤ 2,5%
CAS: 7440-50-8 EINECS: 231-159-6	copper substance with a Community workplace exposure limit	≤ 2,5%
CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5	diphenylamine ----- ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ☠ STOT RE 2, H373 ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤ 2,5%
CAS: 7440-66-6	zinc metal ----- ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤ 2,5%

#### · **Additional information:**

For the wording of the listed Hazard Statements refer to section 16.

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For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

· **Notable Trace Components (≤ 0,1% w/w)**

CAS: 15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
EINECS: 239-290-0	⚠ Unst. Expl., H200
Index number: 609-019-00-4	⚠ 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.

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

Take affected persons out into the fresh air.

· **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· **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**

Blast injury if mishandled.

Breathing difficulty

Coughing

Allergic reactions

Gastric or intestinal disorders.

· **Hazards**

Danger of blast or crush-type injuries.

Suspected of causing cancer.

Danger of impaired breathing.

Harmful if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

May cause damage to organs through prolonged or repeated exposure.

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

Medical supervision for at least 48 hours.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

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.

Contains methylene chloride.

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If medical advice is needed, have product container or label at hand.

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## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

DO NOT fight fire when fire reaches explosives.

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**

Fire or projection hazard.

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

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

- **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.

Cool endangered receptacles with water spray.

In case of fire involving large quantities, evacuate area and fight fire from the upwind side.

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.

Remove persons from danger area.

Wear protective equipment. Keep unprotected persons away.

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 section 13.

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

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· **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.
- 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.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

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

· **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.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**75-09-2 dichloromethane**

PEL (USA)	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910,1052
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 174 mg/m <sup>3</sup> , 50 ppm BEI
EL (Canada)	Long-term value: 25 ppm IARC 2B
EV (Canada)	Long-term value: 175 mg/m <sup>3</sup> , 50 ppm

**55-63-0 glycerol trinitrate / nitroglycerin**

PEL (USA)	Ceiling limit: 2 mg/m <sup>3</sup> , 0,2 ppm Skin
REL (USA)	Short-term value: 0,1 mg/m <sup>3</sup> Skin

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TLV (USA)	Long-term value: 0,46 mg/m <sup>3</sup> , 0,05 ppm Skin
EL (Canada)	Long-term value: 0,05 ppm Skin
EV (Canada)	Long-term value: 0,5 mg/m <sup>3</sup> , 0,05 ppm Skin

**8050-09-7 Rosin**

TLV (USA)	DSEN, RSEN, L
EL (Canada)	S

**7439-89-6 iron**

EV (Canada)	Long-term value: 1* 5** mg/m <sup>3</sup> as iron;*salts, water-soluble;**welding fume
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**7440-50-8 copper**

PEL (USA)	Long-term value: 1* 0,1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL (USA)	Long-term value: 1* 0,1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV (USA)	Long-term value: 1* 0,2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu
EL (Canada)	Long-term value: 1* 0,2** mg/m <sup>3</sup> *dusts and mists; **fume, as Cu
EV (Canada)	Long-term value: 0,2* 1** mg/m <sup>3</sup> as copper, *fume;**dust and mists

**122-39-4 diphenylamine**

REL (USA)	Long-term value: 10 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 10 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.

· **Ingredients with biological limit values:**

**75-09-2 dichloromethane**

BEI (USA)	0,3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
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- **8.2 Exposure controls**
- **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.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.

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Avoid contact with the eyes and skin.

- **Respiratory protection:**

Suitable respiratory protective device recommended.

NIOSH or EN approved organic vapour respirator equipped with a dust/mist prefilter should be used.

- **Protection of hands:**

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

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

- **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 determined.

- **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

Not determined.

- **Flash point:**

Not applicable.

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· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Auto/Self-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Heating may cause an explosion.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **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.  
Reacts with strong oxidising agents.  
Reacts with strong acids and alkali.  
Reacts with certain acids.
- **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)

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Chlorine compounds

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

Toxic in contact with skin or if inhaled.

#### LD/LC50 values relevant for classification:

##### 75-09-2 dichloromethane

Oral	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4h	88 mg/l (rat)

##### 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)

##### 122-39-4 diphenylamine

Oral	LD50	1120 mg/kg (rat)
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#### Primary irritant effect:

• **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

• **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

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 canister 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.

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

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

Danger of blast or crush-type injuries.

Danger through skin adsorption.

Harmful if swallowed.

Toxic in contact with skin or if inhaled.

#### Repeated dose toxicity:

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

Possible risk of irreversible effects.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

• **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

#### Carcinogenicity

Suspected of causing cancer.

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- **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**  
May cause damage to organs through prolonged or repeated exposure.
- **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** May be accumulated in organisms.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Danger to drinking water if even extremely small quantities leak into the ground.  
Harmful to aquatic organisms  
The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary  
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.

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## SECTION 14: Transport information

· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN0362
· 14.2 UN proper shipping name · DOT, IMDG, IATA · ADR	Ammunition, practice 0362, Ammunition, practice
· 14.3 Transport hazard class(es) · DOT, ADR, IMDG, IATA	 · Class 1.4 · Label 1.4G
· 14.4 Packing group · DOT, ADR, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · EMS Number: · Segregation groups	Not applicable. F-A,S-Q Liquid halogenated hydrocarbons
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	UN0362, Ammunition, Practice, 1.4G, II

## SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA	
· Section 355 (extremely hazardous substances):	None of the ingredients are listed.
· Section 313 (Specific toxic chemical listings):	
75-09-2	dichloromethane
55-63-0	glycerol trinitrate / nitroglycerin
7757-79-1	potassium nitrate
· TSCA (Toxic Substances Control Act):	All ingredients are listed.

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# Safety Data Sheet

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

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· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

75-09-2	dichloromethane
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15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
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· **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.

· **Chemicals known to cause developmental toxicity:**

Present in trace quantities.

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
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· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

75-09-2	dichloromethane		L
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7440-50-8	copper		D
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7440-66-6	zinc metal		D, I, II
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· **IARC (International Agency for Research on Cancer)**

75-09-2	dichloromethane		2B
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

75-09-2	dichloromethane
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· **Canada**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

75-09-2	dichloromethane
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122-39-4	diphenylamine
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· **Canadian Ingredient Disclosure list (limit 1%)**

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.

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H201 Explosive; mass explosion hazard.  
 H225 Highly flammable liquid and vapour.  
 H272 May intensify fire; oxidiser.  
 H300 Fatal if swallowed.  
 H301 Toxic 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.  
 H351 Suspected of causing cancer.  
 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. 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 Sens. 1: Sensitisation - Skin, Hazard Category 1  
 Carc. 2: Carcinogenicity, Hazard Category 2  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, 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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