

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, CN
- **Article number:** 3011 (1011800)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture:** Crowd Control Device
- **Uses advised against** Contact manufacturer.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218
Customer Care (800) 347-1200
- **Further information obtainable from:** Customer Care Department
- **1.4 Emergency telephone number:**
ChemTel Inc.
+1 (800)255-3924, +1 (813)248-0585



SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
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 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 3 H331 Toxic if inhaled.



health hazard

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

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 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.

· **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 GHS05 GHS06 GHS08

· **Signal word** Danger

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

2-chloroacetophenone

dichloromethane

glycerol trinitrate / nitroglycerin

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.

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

H315 Causes skin irritation.

H318 Causes serious eye damage.

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

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

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

H412 Harmful to aquatic life with long lasting effects.

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· **Precautionary statements**

- P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat, 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.
 P284 Wear respiratory protection.
 P264 Wash thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 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.
 P370+P380 In case of fire: Evacuate area.
 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.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P372 Explosion risk in case of fire.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 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 = 4
 Fire = 3
 Reactivity = 3

· **HMIS-ratings (scale 0 - 4)**



HEALTH 4 Health = 4
 FIRE 3 Fire = 3
 REACTIVITY 3 Reactivity = 3

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

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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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.

Dangerous components:

CAS: 532-27-4 EINECS: 208-531-1	2-chloroacetophenone  Acute Tox. 2, H300; Acute Tox. 3, H311; Acute Tox. 1, H330  Resp. Sens. 1, H334  Eye Dam. 1, H318  Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 75-09-2 EINECS: 200-838-9 Index number: 602-004-00-3	dichloromethane  Carc. 2, H351	25-50%
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%

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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.

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

Do not leave affected persons unattended.

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.

Remove breathing equipment only after contaminated clothing have been completely removed.

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

Take affected persons out into the fresh air.

· **After inhalation:**

Remove victim to fresh air.

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

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

· **After skin contact:**

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

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

· **After eye contact:**

Protect unharmed eye.

Remove contact lenses if worn.

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

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- **After swallowing:**

Unlikely route of exposure.
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

Asthma attacks
Blast injury if mishandled.
Breathing difficulty
Coughing
Allergic reactions
Gastric or intestinal disorders when ingested.
Irritant to skin and mucous membranes.
Strong irritant with the danger of severe eye injury.
May cause respiratory irritation.

- **Hazards**

Danger of blast or crush-type injuries.
Suspected of causing cancer.
Danger of impaired breathing.
Causes serious eye damage.
Toxic if swallowed, in contact with skin or if inhaled.
May cause damage to organs through prolonged or repeated exposure.

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

Contains chloroacetophenone (CN). Consult literature for specific antidotes.
Contains methylene chloride.
Monitor circulation, possible shock treatment.
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.
Later observation for pneumonia and pulmonary oedema.
Treat skin and mucous membrane with antihistamine and corticoid preparations.
Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.
Contains 2-chloroacetophenone. May produce an allergic reaction.
If medical advice is needed, have product container or label at hand.
In cases of irritation to the lungs, initial treatment with corticoid steroid inhalants.

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.

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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.

Evacuate area and fight fire from 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.

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:**

Prevent seepage into sewage system, workpits and cellars.

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

- **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose contaminated material as waste according to section 13.

Send for recovery or disposal in suitable receptacles.

- **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.

Keep respiratory protective device available.

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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.
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 section 7.
- **8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:

532-27-4 2-chloroacetophenone

PEL (USA)	Long-term value: 0,3 mg/m ³ , 0,05 ppm
REL (USA)	Long-term value: 0,3 mg/m ³ , 0,05 ppm
TLV (USA)	Long-term value: 0,32 mg/m ³ , 0,05 ppm
EL (Canada)	Long-term value: 0,05 ppm
	S
EV (Canada)	Long-term value: 0,32 mg/m ³ , 0,05 ppm

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 ³ , 50 ppm BEI
EL (Canada)	Long-term value: 25 ppm IARC 2B
EV (Canada)	Long-term value: 175 mg/m ³ , 50 ppm

55-63-0 glycerol trinitrate / nitroglycerin

PEL (USA)	Ceiling limit: 2 mg/m ³ , 0,2 ppm Skin
REL (USA)	Short-term value: 0,1 mg/m ³ Skin
TLV (USA)	Long-term value: 0,46 mg/m ³ , 0,05 ppm Skin

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EL (Canada)	Long-term value: 0,05 ppm Skin
EV (Canada)	Long-term value: 0,5 mg/m ³ , 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 ³ 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 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

122-39-4 diphenylamine

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

- **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.
Immediately remove all soiled and contaminated clothing.
Do not inhale dust / smoke / mist.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.

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Wash hands before breaks and at the end of work.

· **Respiratory protection:**



Respiratory protection required.

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

· **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

· **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

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· Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Auto/Self-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not self-igniting.
· Danger of explosion:	Heating may cause an explosion.
· 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-octanol/water):	Not determined.
· Viscosity: Dynamic:	Not applicable.
Kinematic:	Not applicable.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Fire or projection hazard.
Toxic fumes may be released if heated above the decomposition point.
Contact with acids releases toxic gases.
Acts as an oxidising agent on organic materials such as wood, paper and fats.
Reacts with strong alkali.

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Reacts with certain metals.

- **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 (SO_x)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Toxic if swallowed, in contact with skin or if inhaled.

· **LD/LC50 values relevant for classification:**

532-27-4 2-chloroacetophenone

Oral	LD50	50 mg/kg (rat)
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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:**
Effects based on exposure to dusts/mists/spray/vapours released during deployment. Unused product does not possess these effects.
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
Contains 2-chloroacetophenone. May produce an allergic reaction.
May cause sensitisation by inhalation and skin contact.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
- **Additional toxicological information:**

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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.

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

May cause sensitisation by inhalation and skin contact.

Causes serious eye damage.

May cause respiratory irritation.

· **Repeated dose toxicity:**

May cause damage to organs through prolonged or repeated exposure.

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

Suspected of causing cancer.

· **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.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure**

May cause respiratory irritation.

· **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:** The product contains materials that are harmful to the environment.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **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

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.

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· **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. 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

· 14.2 UN proper shipping name

· DOT, IMDG, IATA Ammunition Tear-producing with burster, expelling charge or propelling charge

· ADR 0301 Ammunition Tear-producing with burster, 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

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· Label	1.4G+6.1+8
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· IATA	
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· Class	1.4G
· Label	1.4G+6.1+8

· 14.4 Packing group	
· DOT, ADR, IMDG, IATA	II

· 14.5 Environmental hazards:	
· Marine pollutant:	No
· Special marking (IATA):	



Cargo Aircraft Only.

· 14.6 Special precautions for user	Not applicable.
· EMS Number:	F-A,S-Q
· Segregation groups	Liquid halogenated hydrocarbons

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
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· UN "Model Regulation":	UN0301, Ammunition Tear-producing with burster, expelling charge or propelling charge, 1.4G (6.1+8), II
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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):	
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None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):	
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532-27-4	2-chloroacetophenone
75-09-2	dichloromethane
55-63-0	glycerol trinitrate / nitroglycerin
7757-79-1	potassium nitrate

· TSCA (Toxic Substances Control Act):	
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All ingredients are listed.

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· Proposition 65 (California):
· Chemicals known to cause cancer:

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

· 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 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
7440-50-8	copper	D
7440-66-6	zinc metal	D, I, II

· 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)

75-09-2	dichloromethane
9004-70-0	Nitrocellulose, colloided, granular
55-63-0	glycerol trinitrate / nitroglycerin
7757-79-1	potassium nitrate
8050-09-7	Rosin
7439-89-6	iron
7440-50-8	copper
122-39-4	diphenylamine
85-98-3	1,3-diethyldiphenylurea
7440-44-0	carbon
7704-34-9	sulfur
7440-66-6	zinc metal
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
10022-31-8	barium nitrate
69012-64-2	Silica-Amorphous Silica fume

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· **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%)**

532-27-4	2-chloroacetophenone
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· **Directive 2012/18/EU**

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **Other regulations, limitations and prohibitive regulations**

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

None of the ingredients are listed.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H200 Unstable explosives.

H201 Explosive; mass explosion hazard.

H225 Highly flammable liquid and vapour.

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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

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

H335 May cause respiratory irritation.

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

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CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 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. 1: Acute toxicity, Hazard Category 1
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Carc. 2: Carcinogenicity, Hazard Category 2
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· Sources

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