

Safety Data Sheet

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

Printing date August 11, 2015

Revision: August 11, 2015

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

- **1.1 Product identifier**
- **Trade name: 37mm Skat Shell® Round, CN, 3 Pellets**
- **Article number: 1171-3**
- **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
Explosive product.
- **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.
(800)255-3924, +1 (813)248-0585



SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.



exploding bomb

Expl. 1.4 H204 Fire or projection hazard.



skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 3 H331 Toxic if inhaled.



health hazard

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



corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



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.

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

· **2.2 Label elements**

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

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

· **Hazard pictograms**



GHS01 GHS05 GHS06 GHS08 GHS09

· **Signal word** Danger

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

2-chloroacetophenone
 potassium chlorate
 Nitrocellulose, colloided, granular
 potassium nitrate

· **Hazard statements**

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

H204 Fire or projection hazard.
 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P250 Do not subject to grinding/shock/friction.
 P260 Do not breathe dust.
 P284 In case of inadequate ventilation wear respiratory protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P370+P380 In case of fire: Evacuate area.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P401 Store in accordance with local/regional/national/international regulations.

· **Additional information:**

Can become highly flammable in use.

· **NFPA ratings (scale 0 - 4)**



Health = 4
 Fire = 0
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *3
 Fire = 0
 Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Explosive Product Notice**

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

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

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:**

Mixture of substances listed below with nonhazardous additions.

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

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· Dangerous components:

CAS: 532-27-4 EINECS: 208-531-1	2-chloroacetophenone
CAS: 3811-04-9 EINECS: 223-289-7 Index number: 017-004-00-3	potassium chlorate
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular
CAS: 57-50-1 EINECS: 200-334-9	sucrose, pure substance with a Community workplace exposure limit
CAS: 598-62-9 EINECS: 209-942-9	manganese carbonate substance with a Community workplace exposure limit
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate
CAS: 7440-21-3 EINECS: 231-130-8	silicon
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6	aluminium powder (pyrophoric)
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure substance with a Community workplace exposure limit

· **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

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

CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5	diphenylamine
CAS: 12403-82-6 EINECS: 235-642-2	dihydroxy[styphnato(2-)]dilead / lead styphnate

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.

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

- **After inhalation:**

- Supply fresh air.

- Seek immediate medical advice.

- Seek medical help for symptoms or if unconscious.

- Provide oxygen treatment if affected person has difficulty breathing.

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

- **After skin contact:**

- Immediately wash with water and soap and rinse thoroughly.

- Seek immediate medical advice.

- Seek immediate medical help for blistering or open wounds.

- **After eye contact:**

- Remove contact lenses if worn.

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

- **After swallowing:**

- Unlikely route of exposure.

- Rinse out mouth and then drink plenty of water.

- Do not induce vomiting; call for medical help immediately.

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

- Asthma attacks

- Breathing difficulty

- Coughing

- Gastric or intestinal disorders when ingested.

- Nausea in case of ingestion.

- Allergic reactions

- Eye damage.

- Irritating to respiratory system and skin.

- **Hazards**

- Danger of blast or crush-type injuries.

- Danger of impaired breathing.

- Danger of disturbed cardiac rhythm.

- Danger of pulmonary oedema.

- Toxic if swallowed or in contact with skin.

- Fatal if inhaled.

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

- Contains 2-chloroacetophenone. May produce an allergic reaction.

- If necessary oxygen respiration treatment.

- Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

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.

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DO NOT fight fire when fire reaches explosives.

- **For safety reasons unsuitable extinguishing agents:** None.

- **5.2 Special hazards arising from the substance or mixture**

Fire or projection hazard.

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

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

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information**

Eliminate all ignition sources if safe to do so.

Evacuate area and fight fire from from the upwind side.

Cool endangered product with water spray.

Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions.

Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning

material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from

exploding devices under containment. See 2008 Emergency response Guidebook for further information.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

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

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Protect from heat.

- **6.2 Environmental precautions:**

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

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

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

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to section 13.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

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Handle with care. Avoid jolting, friction and impact.
Use only outdoors or in a well-ventilated area.

· **Information about fire - and explosion protection:**

Protect from heat.
Emergency cooling must be available in case of nearby fire.
Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.
Protect from humidity and water.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.
Store away from oxidising agents.
Store away from flammable substances.

· **Further information about storage conditions:** Store in dry conditions.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· **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

57-50-1 sucrose, pure

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
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 total dust

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598-62-9 manganese carbonate

PEL (USA)	Ceiling limit: 5 mg/m ³ as Mn
REL (USA)	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ as Mn
TLV (USA)	Long-term value: 0,02* 0,1* mg/m ³ as Mn; *respirable **inhalable fraction
EL (Canada)	Long-term value: 0,2 mg/m ³ as Mn; R

7440-21-3 silicon

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	TLV withdrawn
EL (Canada)	Long-term value: 10 mg/m ³
EV (Canada)	Long-term value: 10 mg/m ³ total dust

7429-90-5 aluminium powder (pyrophoric)

PEL (USA)	Long-term value: 15*; 15** mg/m ³ *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *Total dust **Respirable fraction
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction
EL (Canada)	Long-term value: 1,0 mg/m ³ metal and insoluble compounds, respirable
EV (Canada)	Long-term value: 5 mg/m ³ aluminium-containing (as aluminium)

557-04-0 magnesium distearate, pure

TLV (USA)	Long-term value: 10 mg/m ³
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- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Engineering measures**

Do not subject to grinding/shock/friction.
Use only outdoors or in a well-ventilated area.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.

• **Respiratory protection:**



Respiratory protection required.

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

• **Protection of hands:**

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

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Safety glasses

• **Body protection:** Protective work clothing

• **Limitation and supervision of exposure into the environment**

No further relevant information available.

• **Risk management measures**

See Section 7 for additional information.

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

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.

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<p>Boiling point/Boiling range:</p> <p>· Flash point:</p> <p>· Flammability (solid, gaseous):</p> <p>· Auto/Self-ignition temperature:</p> <p>· Decomposition temperature:</p> <p>· Self-igniting:</p> <p>· Danger of explosion:</p> <p>· Explosion limits: Lower: Upper:</p> <p>· Oxidising properties</p> <p>· Vapour pressure:</p> <p>· Density:</p> <p>· Relative density</p> <p>· Vapour density</p> <p>· Evaporation rate</p> <p>· Solubility in / Miscibility with water:</p> <p>· Partition coefficient (n-octanol/water):</p> <p>· Viscosity: Dynamic: Kinematic:</p> <p>· 9.2 Other information</p>	<p>Undetermined.</p> <p>Not applicable.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Product is not self-igniting.</p> <p>Fire or projection hazard.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Contains oxidizing agent.</p> <p>Not applicable.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Insoluble.</p> <p>Not determined.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>No further relevant information available.</p>
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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.
 Reacts with flammable substances.
 Reacts with strong acids and alkali.
- **10.4 Conditions to avoid**
 Store away from oxidising agents.
 Keep ignition sources away - Do not smoke.
 Cartridge may detonate if case is punctured or severely damaged.
- **10.5 Incompatible materials:** No further relevant information available.

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· **10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide
Toxic metal oxide smoke
Chlorine compounds
Nitrogen oxides

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity**

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

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

532-27-4 2-chloroacetophenone

Oral	LD50	50 mg/kg (rat)
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3811-04-9 potassium chlorate

Oral	LD50	1870 mg/kg (rat)
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· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye damage.

· **Respiratory or skin sensitisation**

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

May cause an allergic skin reaction.

· **Additional toxicological information:**

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

Danger through skin adsorption.

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

Danger of blast or crush-type injuries.

Causes serious eye damage.

May cause respiratory irritation.

Irritating to skin.

Fatal if inhaled.

Toxic if swallowed or in contact with skin.

· **Repeated dose toxicity:**

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

May cause damage to organs through prolonged or repeated exposure.

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

· **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

· **Carcinogenicity**

Based on available data, the classification criteria are not met.

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- **Reproductive toxicity**
Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure**
Based on available data, the classification criteria are not met.
- **Aspiration hazard**
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Harmful to aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to local official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **DOT, ADR, IMDG, IATA** UN0301

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· **14.2 UN proper shipping name**

- **DOT** Ammunition Tear-producing with burster, expelling charge or propelling charge
- **ADR** 0301 AMMUNITION TEAR-PRODUCING with burster, expelling charge or propelling charge
- **IMDG, IATA** 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**



- **Class** 1.4 ()
- **Label** 1.4G+6.1+8

· **IMDG**



- **Class** 1.4
- **Label** 1.4G/6.1/8

· **IATA**



- **Class** 1.4
- **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.

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- **14.6 Special precautions for user** Not applicable.
- **EMS Number:** F-B,S-Z
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:**

-
- **ADR**
 - **Limited quantities (LQ)** 0
 - **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity

-
- **IMDG**
 - **Limited quantities (LQ)** 0
 - **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
 - **UN "Model Regulation":** UN0301, 0301, ENVIRONMENTALLY HAZARDOUS, 1.4G (6.1+8), II

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):**

532-27-4 | 2-chloroacetophenone

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **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.

None of the ingredients are listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

598-62-9 | manganese carbonate

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Trade name: 37mm Skat Shell® Round, CN, 3 Pellets

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· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH)**

532-27-4 | 2-chloroacetophenone

A4

57-50-1 | sucrose, pure

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **Canada**

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

Some components are listed on the NDSL.

Not all ingredients listed.

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

598-62-9 | manganese carbonate

· **Canadian Ingredient Disclosure list (limit 1%)**

532-27-4 | 2-chloroacetophenone

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I**

7757-79-1 | potassium nitrate

· **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 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**

H201 Explosive; mass explosion hazard.

H228 Flammable solid.

H250 Catches fire spontaneously if exposed to air.

H261 In contact with water releases flammable gases.

H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser.

H300 Fatal if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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Safety Data Sheet

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

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H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 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
 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)
 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
 Flam. Sol. 2: Flammable solids, Hazard Category 2
 Pyr. Sol. 1: Pyrophoric Solids, Hazard Category 1
 Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2

 Ox. Sol. 1: Oxidising Solids, Hazard Category 1
 Ox. Sol. 2: Oxidising Solids, Hazard Category 2
 Acute Tox. 2: Acute toxicity, Hazard Category 2
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 Acute Tox. 1: Acute toxicity, Hazard Category 1
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

• **Sources**

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