

# Safety Data Sheet

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

Printing date August 13, 2015

Revision: August 13, 2015

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

- **1.1 Product identifier**
- **Trade name: Pocket Tactical Grenade OC**
- **Article number: 1019**
- **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
- **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**  
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).



exploding bomb

Expl. 1.4                    H204 Fire or projection hazard.



Skin Irrit. 2                    H315 Causes skin irritation.  
 Eye Irrit. 2                    H319 Causes serious eye irritation.  
 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.

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- **Hazard pictograms**



GHS01 GHS07

- **Signal word** Warning

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

Oleoresin Capsicum

- **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.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H412 Harmful 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.

P261 Avoid breathing dust.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P362+P364 Take off 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 = 0

Reactivity = 4

This substance possesses oxidizing properties.

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- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	4	Reactivity = 4

\* - 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:**

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

Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 100-21-0 EINECS: 202-830-0	terephthalic acid substance with a Community workplace exposure limit
CAS: 3811-04-9 EINECS: 223-289-7 Index number: 017-004-00-3	potassium chlorate ⚠ Ox. Sol. 1, H271 ⚠ Aquatic Chronic 2, H411 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332
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: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular ⚠ Expl. 1.1, H201

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CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate Ox. Sol. 2, H272
CAS: 8023-77-6 EINECS: 288-920-0	Oleoresin Capsicum Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315
CAS: 1309-37-1 EINECS: 215-168-2	diiron trioxide / iron (III) oxide substance with a Community workplace exposure limit
CAS: 7440-50-8 EINECS: 231-159-6	copper substance with a Community workplace exposure limit
CAS: 7440-32-6 EINECS: 231-142-3	titanium Pyr. Sol. 1, H250; Self-heat. 1, H251; Water-react. 1, H260
CAS: 7440-66-6	zinc metal Aquatic Acute 1, H400; Aquatic Chronic 1, H410
CAS: 7440-21-3 EINECS: 231-130-8	silicon Flam. Sol. 2, H228
CAS: 7440-67-7 EINECS: 231-176-9 Index number: 040-001-00-3	zirconium powder (pyrophoric) Pyr. Sol. 1, H250; Water-react. 1, H260
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6	aluminium powder (pyrophoric) Pyr. Sol. 1, H250; Water-react. 2, H261
CAS: 7778-74-7 EINECS: 231-912-9 Index number: 017-008-00-5	potassium perchlorate Ox. Sol. 1, H271 Acute Tox. 4, H302
CAS: 7704-34-9 EINECS: 231-722-6 Index number: 016-094-00-1	sulfur Skin Irrit. 2, H315
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure substance with a Community workplace exposure limit
CAS: 592-87-0 EINECS: 209-774-6 Index number: 082-001-00-6	lead dithiocyanate Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Acute Tox. 4, H332
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: 10294-40-3 EINECS: 233-660-5 Index number: 056-002-00-7	barium chromate Carc. 1A, H350 Acute Tox. 4, H302; Acute Tox. 4, H332
CAS: 69012-64-2 EINECS: 273-761-1	Silica-Amorphous Silica fume substance with a Community workplace exposure limit

**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 ( $\leq 0,1\%$  w/w)**


CAS: 7758-97-6

EINECS: 231-846-0

Index number: 082-004-00-2

lead chromate

 Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373

 Aquatic Acute 1, H400; Aquatic Chronic 1, H410

## 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.

· **After inhalation:**

Supply fresh air.

Seek immediate medical advice.

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

Provide oxygen treatment if affected person has difficulty breathing.

· **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Protect unharmed eye.

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.

Irritating to eyes, respiratory system and skin.

Breathing difficulty

Coughing

Allergic reactions

Disorientation

· **Hazards**

Danger of blast or crush-type injuries.

Danger of impaired breathing.

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

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.

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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.  
Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.  
Hazardous combustions products: Metal Compounds, Carbon Monoxide, Carbon Dioxide, Nitrous Oxides, Various complex oxides of metals, Nitrogen.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Evacuate area and fight fire from from the upwind side.  
Cool endangered receptacles with water spray.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Isolate area and prevent access.  
Keep people at a distance and stay on the windward side.  
Wear protective equipment. Keep unprotected persons away.  
Remove persons from danger area.  
Ensure adequate ventilation  
Protect from heat.  
Keep away from ignition sources.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Suppress gases/fumes/haze with water spray.
- **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.

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## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Handle with care. Avoid jolting, friction and impact.  
Keep away from heat and direct sunlight.  
Use only in well ventilated areas.
- **Information about fire - and explosion protection:**  
Prevent impact and friction.  
Keep respiratory protective device available.  
Emergency cooling must be available in case of nearby fire.  
Protect from heat.  
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Provide ventilation for 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.  
Do not store together with oxidising and acidic materials.  
Store away from water.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Store in dry conditions.  
Store receptacle in a well ventilated area.
- **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:

#### 100-21-0 terephthalic acid

TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust; **respirable fraction
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup>

#### 57-50-1 sucrose, pure

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

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TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust;**respirable fraction
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust

**598-62-9 manganese carbonate**

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

**1309-37-1 diiron trioxide / iron (III) oxide**

PEL (USA)	Long-term value: 10* 15** 5*** mg/m <sup>3</sup> *Fume; Rouge: **Total dust, ***respirable
REL (USA)	Long-term value: 5 mg/m <sup>3</sup> Dust & fume, as Fe
TLV (USA)	Long-term value: 5* mg/m <sup>3</sup> *as respirable fraction
EL (Canada)	Short-term value: 10** mg/m <sup>3</sup> Long-term value: 5* 10*** 3**** mg/m <sup>3</sup> *dust & fume**fume; Rouge: ***total dust****resp.
EV (Canada)	Long-term value: 5* 10** mg/m <sup>3</sup> *respirable, including Rouge;**total dust

**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

**7440-21-3 silicon**

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

**7440-67-7 zirconium powder (pyrophoric)**

PEL (USA)	Long-term value: 5 mg/m <sup>3</sup> as Zr
REL (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
TLV (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
EL (Canada)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
EV (Canada)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as zirconium

**7429-90-5 aluminium powder (pyrophoric)**

PEL (USA)	Long-term value: 15*; 15** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1,0 mg/m <sup>3</sup> respirable, as Al
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup> aluminium-containing (as aluminium)

**557-04-0 magnesium distearate, pure**

TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
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**592-87-0 lead dithiocyanate**

PEL (USA)	Long-term value: 5 mg/m <sup>3</sup> as CN; Skin
EV (Canada)	Long-term value: 0,05 mg/m <sup>3</sup> as Pb, Skin (organic compounds)

**122-39-4 diphenylamine**

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

**10294-40-3 barium chromate**

PEL (USA)	Long-term value: 0,005* mg/m <sup>3</sup> Ceiling limit: 0,1** mg/m <sup>3</sup> *as Cr(VI) **as CrO <sub>3</sub> ; see 29 CFR 1910,1026
REL (USA)	Long-term value: 0,0002 mg/m <sup>3</sup> as Cr; See Pocket Guide Apps. A and C
TLV (USA)	Long-term value: 0,01 mg/m <sup>3</sup> as Cr
EL (Canada)	Long-term value: 0,01 mg/m <sup>3</sup> as Cr; ACGIH A1, IARC 1

**69012-64-2 Silica-Amorphous Silica fume**

TLV (USA)	TLV withdrawn
EL (Canada)	Long-term value: 4* 1,5** mg/m <sup>3</sup> fume *total; **respirable
EV (Canada)	Long-term value: 2 mg/m <sup>3</sup> respirable

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

· **Ingredients with biological limit values:**

**10294-40-3 barium chromate**

BEI (USA)	25 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Total chromium (fume)
	10 µg/L Medium: urine Time: increase during shift Parameter: Total chromium (fume)

- **Additional information:** The lists valid during the making were used as basis.

· **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.  
Avoid close or long term contact with the skin.  
Avoid contact with the eyes.  
Do not inhale dust / smoke / mist.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.

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Do not inhale gases / fumes / aerosols.

- **Respiratory protection:**

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

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Solid material

**Colour:** Grey

- **Odour:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

**Melting point/Melting range:** Not Determined.

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<b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Not determined.
· <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>	Extreme risk of explosion by shock, friction, fire or other sources of ignition.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <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**  
Fire or projection hazard.  
Contact with acids releases toxic gases.  
Toxic fumes may be released if heated above the decomposition point.  
Strong exothermic reaction with acids.  
Develops toxic gases/fumes.
- **10.4 Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidising agents.  
Keep away from heat and direct sunlight.  
Cartridge may detonate if case is punctured or severely damaged.

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- **10.5 Incompatible materials:** Contact with acids liberates toxic gas.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Hydrocarbons  
Leadoxide vapour  
Bariumoxide vapour  
Nitrogen oxides (NOx)  
Chlorine compounds  
Poisonous gases/vapours  
Irritant gases/vapours

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

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

### **3811-04-9 potassium chlorate**

Oral	LD50	1870 mg/kg (rat)
------	------	------------------

### **8023-77-6 Oleoresin Capsicum**

Oral	LD50	3000 mg/kg (rat)
Dermal	LD50	>2500 mg/kg (mouse)

### **122-39-4 diphenylamine**

Oral	LD50	1120 mg/kg (rat)
------	------	------------------

### **7758-97-6 lead chromate**

Oral	LD50	12000 mg/kg (mouse)
------	------	---------------------

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:** Toxic and/or corrosive effects may be delayed up to 24 hours.
- **Acute effects (acute toxicity, irritation and corrosivity):** Irritating to eyes, respiratory system and skin.
- **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.
- **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.

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## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**  
Toxic for aquatic organisms  
The product contains materials that are harmful to the environment.
- **12.2 Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- **12.3 Bioaccumulative potential** May be accumulated in organism
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
This statement was deduced from the properties of the single components.  
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.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **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.  
Hand over to hazardous waste disposers.  
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 local official regulations.

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## SECTION 14: Transport information

- 14.1 UN-Number UN0301
- DOT, ADR, IMDG, IATA
- 14.2 UN proper shipping name AMMUNITION TEAR-PRODUCING with burster,  
expelling
- DOT, IMDG, IATA charge or propelling charge
  
- ADR 0301 AMMUNITION TEAR-PRODUCING with burster,  
expelling
- ADR charge or propelling charge
  
- 14.3 Transport hazard class(es)
- DOT
- 
- Class 1 Explosive substances and articles.
- Label 1.4G, 6.1, 8


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- ADR
- 
- Class 1 Explosive substances and articles.
- Label 1.4G+6.1+8

---

- IMDG
- 
- Class 1 Explosive substances and articles.
- Label 1.4G/6.1/8

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- IATA
- 
- Class 1 Explosive substances and articles.
- Label 1.4G (6.1, 8)
- 14.4 Packing group II
- DOT, ADR, IMDG, IATA

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- 14.5 Environmental hazards:
- Special marking (IATA):



Cargo Aircraft Only.

- 14.6 Special precautions for user                      Warning: Explosive substances and articles.
- Danger code (Kemler):
- 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
- Transport category                                    2
- Tunnel restriction code                              E
- UN "Model Regulation":                            UN0301, AMMUNITION TEAR-PRODUCING with  
bursting, expelling  
charge or propelling charge, (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):

598-62-9	manganese carbonate
7757-79-1	potassium nitrate
7440-50-8	copper
7440-66-6	zinc metal
7429-90-5	aluminium powder (pyrophoric)

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65 (California):

- Chemicals known to cause cancer:

592-87-0	lead dithiocyanate
10294-40-3	barium chromate
7758-97-6	lead chromate

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· **Chemicals known to cause reproductive toxicity for females:**

Present in trace quantities.

10294-40-3	barium chromate
7758-97-6	lead chromate

· **Chemicals known to cause reproductive toxicity for males:**

Present in trace quantities.

10294-40-3	barium chromate
7758-97-6	lead chromate

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

Present in trace quantities.

10294-40-3	barium chromate
7758-97-6	lead chromate

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

598-62-9	manganese carbonate	D
7440-50-8	copper	D
7440-66-6	zinc metal	D, I, II
7778-74-7	potassium perchlorate	NL
10294-40-3	barium chromate	A(inh), D(oral), K/L(inh), CBD(oral)

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

1309-37-1	diiron trioxide / iron (III) oxide	3
10294-40-3	barium chromate	1
69012-64-2	Silica-Amorphous Silica fume	3

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

57-50-1	sucrose, pure	A4
1309-37-1	diiron trioxide / iron (III) oxide	A4
7440-67-7	zirconium powder (pyrophoric)	A4
7429-90-5	aluminium powder (pyrophoric)	A4
122-39-4	diphenylamine	A4
10294-40-3	barium chromate	A1

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

10294-40-3	barium chromate
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· **Canada**

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

All ingredients listed on DSL or NDSL.

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

598-62-9	manganese carbonate
122-39-4	diphenylamine
10294-40-3	barium chromate

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

100-21-0	terephthalic acid
1309-37-1	diiron trioxide / iron (III) oxide
7440-50-8	copper
7429-90-5	aluminium powder (pyrophoric)

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I**

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**

- H201 Explosive; mass explosion hazard.
- H228 Flammable solid.
- H250 Catches fire spontaneously if exposed to air.
- H251 Self-heating; may catch fire.
- H260 In contact with water releases flammable gases which may ignite spontaneously.
- H261 In contact with water releases flammable gases.
- H271 May cause fire or explosion; strong oxidiser.
- H272 May intensify fire; oxidiser.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H350 May cause cancer.
- H360Df May damage the unborn child. Suspected of damaging fertility.
- 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

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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  
 Self-heat. 1: Self-Heating Substances and Mixtures, Hazard Category 1  
 Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, 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. 3: Acute toxicity, Hazard Category 3  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Carc. 1A: Carcinogenicity, Hazard Category 1A  
 Carc. 1B: Carcinogenicity, Hazard Category 1B  
 Repr. 1A: Reproductive toxicity, Hazard Category 1A  
 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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