

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: July 16, 2016

Revision: July 16, 2016

## 1 Identification

- **Product identifier**
- **Trade name:** Han-Ball™ Grenade, OC
- **Product code:** 1099 (1176034)
- **Recommended use and restriction on use**
- **Recommended use:** Explosive product.
- **Restrictions on use:** Contact manufacturer
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Safariland, LLC  
13386 International Parkway  
Jacksonville, FL 32218  
Customer Care (800) 347-1200
- **Information department:** Customer Care Department
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585



## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Expl. 1.4 H204 Fire or projection hazard.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
STOT SE 3 H335 May cause respiratory irritation.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**  

GHS01 GHS07
- **Signal word:** Warning
- **Hazard statements:**  
H204 Fire or projection hazard.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.
- **Precautionary statements:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P250 Do not subject to grinding/shock/friction.  
P261 Avoid breathing dust.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves / eye protection / face protection.

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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.  
 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.  
 P372 Explosion risk in case of fire.  
 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.  
 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.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



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

· **Other hazards**

· **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.

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## 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

#### · Components:

100-21-0	terephthalic acid	10-20%
9004-70-0	Nitrocellulose, colloided, granular ⚠ Expl. 1.1, H201	10-20%
3811-04-9	potassium chlorate ⚠ Ox. Sol. 1, H271 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	10-20%
57-50-1	sucrose, pure	10-20%
7757-79-1	potassium nitrate ⚠ Ox. Sol. 2, H272	5-<10%
546-93-0	Magnesium carbonate	5-<10%
404-86-4	Capsaicin ⚠ Acute Tox. 3, H301 ⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	5-<10%
7440-21-3	silicon ⚠ Flam. Sol. 2, H228	5-<10%
557-04-0	magnesium distearate, pure	1-2.5%
7429-90-5	aluminium powder (pyrophoric) ⚠ Pyr. Sol. 1, H250; Water-react. 2, H261	1-2.5%
10294-40-3	barium chromate ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	0.1-1%
7439-96-5	manganese	0.1-1%
7758-97-6	lead chromate ⚠ Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373	0.1-<0.3%

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

## 4 First-aid measures

### · Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

#### · After inhalation:

Remove victim to fresh air.

Seek medical help for symptoms or if unconscious.

#### · After skin contact:

Brush off loose particles from skin.

If skin irritation continues, consult a doctor.

#### · After eye contact:

Remove contact lenses if worn.

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Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

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

Blast injury if mishandled.

May cause respiratory irritation.

Breathing difficulty

Coughing

Irritant to eyes.

Irritant to skin and mucous membranes.

- **Danger:**

Danger of blast or crush-type injuries.

Danger of impaired breathing.

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

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

If necessary oxygen respiration treatment.

### 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

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

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

Fire or projection hazard.

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

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

- **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.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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.

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## 6 Accidental release measures

- **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.

- **Environmental precautions:** No special measures required.

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

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

- **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.

## 7 Handling and storage

- **Handling**

- **Precautions for safe handling:**

Handle with care. Avoid jolting, friction and impact.

Use only in well ventilated areas.

- **Information about protection against explosions and fires:**

Protect from heat.

Keep respiratory protective device available.

Emergency cooling must be available in case of nearby fire.

- **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.

- **Specific end use(s):** No relevant information available.

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**8 Exposure controls/personal protection**· **Control parameters**· **Components 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>
LMPE (Mexico)	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
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
LMPE (Mexico)	Long-term value: 10 mg/m <sup>3</sup> A4

**546-93-0 Magnesium carbonate**

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
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
LMPE (Mexico)	Short-term value: 20 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup> (e)

**7440-21-3 silicon**

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
TLV (USA)	TLV withdrawn

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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
LMPE (Mexico)	Short-term value: 20 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup> (e)

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

TLV (USA)	Long-term value: (10) NIC-10* NIC-3** mg/m <sup>3</sup> Fraction: *inhalable **respirable
LMPE (Mexico)	Long-term value: 10 mg/m <sup>3</sup> A4

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

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> 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)
LMPE (Mexico)	Long-term value: 1* mg/m <sup>3</sup> A4, *fracción respirable

**10294-40-3 barium chromate**

PEL (USA)	Long-term value: 0.005* mg/m <sup>3</sup> Ceiling limit value: 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
LMPE (Mexico)	Long-term value: 0.01 mg/m <sup>3</sup> A1; como Cr

**7439-96-5 manganese**

PEL (USA)	Ceiling limit value: 5 mg/m <sup>3</sup> as Mn
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REL (USA)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> fume, 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
EV (Canada)	Long-term value: 0.2 mg/m <sup>3</sup> as manganese
LMPE (Mexico)	Long-term value: 0.2 mg/m <sup>3</sup> como Mn

**7758-97-6 lead chromate**

PEL (USA)	Long-term value: 0.005* mg/m <sup>3</sup> Ceiling limit value: 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: 0.05* 0.012** mg/m <sup>3</sup> *as Pb; BEI ; **as Cr
EL (Canada)	Long-term value: 0.05* 0.012** mg/m <sup>3</sup> ACIGH A2, IARC 1; R; *as Pb; **as Cr
EV (Canada)	Long-term value: 0.012* 0.05** mg/m <sup>3</sup> *as Cr, **as Pb
LMPE (Mexico)	Long-term value: 0.012* 0.05** mg/m <sup>3</sup> *como Cr:A2,**como Pb: A2, IBE

**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)

**7758-97-6 lead chromate**

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BEI (USA)	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
	10 µg/100 ml Medium: blood Time: not critical Parameter: Lead (women of child bearing potential)

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Do not inhale dust / smoke / mist.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- **Engineering controls:** Provide adequate ventilation.

- **Breathing equipment:**

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

Use suitable respiratory protective device when high concentrations are present.

- **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 relevant information available.

- **Risk management measures**

See Section 7 for additional information.

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Organizational measures should be in place for all activities involving this product.  
No relevant information available.

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## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · Appearance:

**Form:** Solid metal container containing liquid and solid contents.

**Color:** According to product specification

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** Not determined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Heating may cause an explosion.

#### · Explosion limits

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapor pressure:** Not applicable.

· **Density:** Not determined.

· **Relative density:** Not determined.

· **Vapor 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.

· **Other information** No relevant information available.

## 10 Stability and reactivity

· **Reactivity:** No relevant information available.

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- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **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 oxidizing agent on organic materials such as wood, paper and fats.  
Reacts with strong alkali.
- **Conditions to avoid:** Sources of ignition, open flame, incompatible materials.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides  
Sulfur oxides (SO<sub>x</sub>)

## 11 Toxicological information

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

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

### 3811-04-9 potassium chlorate

Oral	LD50	1870 mg/kg (rat)
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### 7758-97-6 lead chromate

Oral	LD50	12000 mg/kg (mouse)
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- **Primary irritant effect:**

- **On the skin:**

Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.

- **On the eye:**

Not an eye irritant in unused form. Vapors/particles from delployed product are a serious eye irritant.

- **Sensitization:** Sensitizing effect by skin contact is possible with prolonged exposure.

- **IARC (International Agency for Research on Cancer):**

10294-40-3	barium chromate	1
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- **NTP (National Toxicology Program):**

592-87-0	lead dithiocyanate	R
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- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

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

Danger of blast or crush-type injuries.

Irritating to eyes, respiratory system and skin.

- **Repeated dose toxicity:** From product as supplied: None.

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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** The product contains materials that are harmful to the environment.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** May be accumulated in organism
- **Mobility in soil:** No relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.  
Harmful to aquatic organisms  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of 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 packagings**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

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

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· **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

· **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)

· **Packing group**

· **DOT, ADR, IMDG, IATA** II

· **Environmental hazards**

· **Marine pollutant:** No

· **Special precautions for user**

Not applicable.

· **EMS Number:**

F-B,S-Z

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· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**  
· **PHSMA EX #** EX2016020752

· **ADR**  
· **Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity

· **IMDG**  
· **Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity

· **IATA**



Cargo Aircraft Only.

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
· **United States (USA)**  
· **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

7429-90-5 aluminium powder (pyrophoric)

7757-79-1 potassium nitrate

7440-50-8 copper

7440-66-6 zinc metal

· **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):**

7778-74-7	potassium perchlorate	NL
7440-50-8	copper	D
7440-66-6	zinc metal	D, I, II

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

10294-40-3	barium chromate	1
7758-97-6	lead chromate	1

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

None of the ingredients are listed.

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

All ingredients are listed.

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

· **Date of preparation / last revision** 07/26/2016 / -· **Abbreviations and acronyms:**

ADR: 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

(Cont'd. on page 16)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

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**Trade name: Han-Ball™ Grenade, OC**

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LDLo: Lowest Lethal Dose Observed  
Expl. 1.1: Explosives – Division 1.1  
Expl. 1.4: Explosives – Division 1.4  
Flam. Sol. 2: Flammable solids – Category 2  
Pyr. Sol. 1: Pyrophoric solids – Category 1  
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2  
Ox. Sol. 1: Oxidizing solids – Category 1  
Ox. Sol. 2: Oxidizing solids – Category 2  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Carc. 1B: Carcinogenicity – Category 1B  
Repr. 1A: Reproductive toxicity – Category 1A  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

**Sources**

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