

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 06/23/2016

Revision: 06/23/2016

1 Identification

- **Product identifier**
- **Trade name:** Flameless Expulsion Grenade, OC Powder
- **Product code:** MP-2FE-OC
- **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:**
NonLethal Technologies, Inc.
9419 Rt 286 Hwy W
Homer City, PA 15748
USA
+1 724-479-5100
nlt@nonlethaltechnologies.com
- **Emergency telephone number:** 1-800-255-3924 (Intl.: +1 813-248-0585) (CHEMTEL # MIS9685256)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Expl. 1.4 H204 Fire or projection hazard.
Press. Gas H280 Contains gas under pressure; may explode if heated.
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 GHS04 GHS07
- **Signal word:** Warning
- **Hazard statements:**
H204 Fire or projection hazard.
H280 Contains gas under pressure; may explode if heated.
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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P233	Keep container tightly closed.
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.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

· **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.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

1309-48-4	magnesium oxide	25-40%
546-93-0	Magnesium carbonate	25-40%
124-38-9	carbon dioxide	10-20%
	Press. Gas, H280	
404-86-4	Capsaicin	<5%
	Acute Tox. 3, H301	
	Eye Dam. 1, H318	
	Skin Irrit. 2, H315; STOT SE 3, H335	

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7757-79-1	potassium nitrate Ox. Sol. 2, H272	<2%
7440-02-0	nickel Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	<1%
7440-67-7	zirconium powder (pyrophoric) Pyr. Sol. 1, H250; Water-react. 1, H260	<1%

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

Notable Trace Components (< 0.1% w/w)

592-87-0	lead dithiocyanate	Repr. 1A, H360; STOT RE 2, H373 Acute Tox. 4, H302; Acute Tox. 4, H332
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4 First-aid measures

Description of first aid measures
General information:

This is a sealed unit that will not result in exposure to the contents under normal and reasonable conditions of use. In the unlikely event of exposure to contents, appropriate first aid should be administered.

After inhalation:

Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.

After skin contact:

Brush off loose particles from skin.
Wash with soap and water.
If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Unlikely route of exposure.
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.
Coughing
Nausea
Dizziness
Breathing difficulty
Irritating to eyes, respiratory system and skin.

Danger:

Danger of blast or crush-type injuries.
Danger of impaired breathing.

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· 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.

5 Fire-fighting measures

· 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.**· Special hazards arising from the substance or mixture**

Fire or projection hazard.

Formation of toxic gases is possible during heating or in case of fire.

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 the upwind side.

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

Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment as required.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Protect from heat.

Keep away from ignition sources.

· Environmental precautions:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

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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:

Use only in well ventilated areas.
Handle with care. Avoid jolting, friction and impact.

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.
Pressurized container: May burst if heated.

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

Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

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

8 Exposure controls/personal protection

Control parameters
Components with limit values that require monitoring at the workplace:
1309-48-4 magnesium oxide

PEL (USA)	Long-term value: 15* mg/m ³ fume; *total particulate
TLV (USA)	Long-term value: 10* mg/m ³ *as inhalable fraction
EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 10* 3** mg/m ³ *inhalable fume;**respirable dust and fume
EV (Canada)	Long-term value: 10 mg/m ³ inhalable
LMPE (Mexico)	Long-term value: 10* mg/m ³ A4, *fracción respirable

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546-93-0 Magnesium carbonate

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* 3** mg/m ³ *total dust, **respirable fraction
EV (Canada)	Long-term value: 10 mg/m ³ total dust
LMPE (Mexico)	Short-term value: 20 mg/m ³ Long-term value: 10 mg/m ³ (e)

124-38-9 carbon dioxide

PEL (USA)	Long-term value: 9000 mg/m ³ , 5000 ppm
REL (USA)	Short-term value: 54.000 mg/m ³ , 30.000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm
TLV (USA)	Short-term value: 54.000 mg/m ³ , 30.000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm
EL (Canada)	Short-term value: 15000 ppm Long-term value: 5000 ppm
EV (Canada)	Short-term value: 54000 mg/m ³ , 30000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm
LMPE (Mexico)	Short-term value: 30000 ppm Long-term value: 5000 ppm

nickel powder

PEL (USA)	Long-term value: 1 mg/m ³
REL (USA)	Long-term value: 0.015 mg/m ³ as Ni; See Pocket Guide App. A
TLV (USA)	Long-term value: 1.5* mg/m ³ elemental, *inhalable fraction
EL (Canada)	Long-term value: 0.05 mg/m ³ ACGIH A1, IARC 2B
EV (Canada)	Long-term value: 1 mg/m ³ Inhalable fraction
LMPE (Mexico)	Long-term value: 1.5* mg/m ³ *elemental:A5, fracción inhalable

7440-67-7 zirconium powder (pyrophoric)

PEL (USA)	Long-term value: 5 mg/m ³ as Zr
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REL (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
TLV (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
EL (Canada)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as Zr
EV (Canada)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as zirconium
LMPE (Mexico)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ A4; como Zr

- **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.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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

- **Breathing equipment:**

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

- **Protection of hands:**



Protective gloves

Wear gloves when handling deployed rounds.

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

- **Eye protection:**



Safety glasses

- **Body protection:**

Not required under normal conditions of use.

Protection may be required for spills.

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

No relevant information available.

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Risk management measures

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

9 Physical and chemical properties

Information on basic physical and chemical properties
Appearance:
Form:

Solid metal container containing solid contents.

Color:

Dark grey

Odor:

Characteristic

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):

Highly flammable.

Contact with water liberates extremely flammable gases.

Auto-ignition temperature:

Not determined.

Decomposition temperature:

Not determined.

Danger of explosion:

Fire or projection hazard.

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.
Pressurized container: Do not pierce or burn, even after use.
- **Possibility of hazardous reactions:**
Toxic fumes may be released if heated above the decomposition point.
Fire or projection hazard.
Reacts with strong acids and alkali.
- **Conditions to avoid:** Sources of ignition, open flame, incompatible materials.
- **Incompatible materials:** Oxidizers
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Sulfur oxides (SO_x)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
Effects based on exposure to dusts/mists/spray/vapours released during deployment. Unused product does not possess these effects.
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer):

10294-40-3	barium chromate	1
7440-02-0	nickel	2B
592-87-0	lead dithiocyanate	2B

· NTP (National Toxicology Program):

10294-40-3	barium chromate	K
7440-02-0	nickel	R
592-87-0	lead dithiocyanate	R

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

- **Probable route(s) of exposure:**
Inhalation.
Skin contact.
Eye contact.
- **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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- **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.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity** The product contains materials that are harmful to the environment.
- **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:**
The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.
Do not allow product to reach ground water, water course or sewage system.
- **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. Incinerate in accordance with local, state and federal regulations.
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

- | | |
|---|-----------------------------------|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADR, IMDG, IATA | <p>UN0301</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT, ADR, IMDG, IATA | <p>AMMUNITION, TEAR PRODUCING</p> |

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· Transport hazard class(es)
· DOT


· Class 1.4G
· Label 1.4G, 6.1, 8

· ADR


· Class 1.4G
· Label 1.4G+6.1+8

· IMDG


· Class 1.4/6.1/8
· Label 1.4/6.1/8

· IATA


· Class 1.4 (6.1, 8)
· Label 1.4 (6.1, 8)

· Packing group

· DOT II

· Environmental hazards

· Marine pollutant: No

· Special precautions for user

Not applicable.

· EMS Number:

F-A,S-Q

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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· Transport/Additional information:
· 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 304 (emergency release notification):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

7757-79-1 | potassium nitrate

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

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

10294-40-3 | barium chromate

7440-02-0 | nickel

592-87-0 | lead dithiocyanate

· Chemicals known to cause reproductive toxicity for females:

10294-40-3 | barium chromate

· Chemicals known to cause reproductive toxicity for males:

10294-40-3 | barium chromate

· Chemicals known to cause developmental toxicity:

10294-40-3 | barium chromate

· Carcinogenic categories
· EPA (Environmental Protection Agency):

10294-40-3 | barium chromate

A(inh), D(oral), K/L(inh), CBD(oral)

7778-74-7 | potassium perchlorate

NL

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· IARC (International Agency for Research on Cancer):

10294-40-3	barium chromate	1
7440-02-0	nickel	2B
592-87-0	lead dithiocyanate	2B

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

10294-40-3	barium chromate
7440-02-0	nickel

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** 06/23/2016 / -

· **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
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Expl. 1.4: Explosives – Division 1.4
 Press. Gas: Gases under pressure – Compressed gas
 Press. Gas: Gases under pressure – Liquefied gas
 Pyr. Sol. 1: Pyrophoric solids – Category 1
 Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
 Ox. Sol. 2: Oxidizing solids – Category 2
 Acute Tox. 3: Acute toxicity – Category 3
 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
 Skin Sens. 1: Skin sensitisation – Category 1
 Carc. 2: Carcinogenicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

· **Sources**

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Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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