

Safety Data Sheet

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

Printing date: January 06, 2017

Revision: January 06, 2017

1 Identification

- **Product identifier**
- **Trade name: 40 mm Warning/Signaling Munition - 100 Meters**
- **Product code: 6029WS**
- **Recommended use and restriction on use**
- **Recommended use:** Crowd Control Device
- **Restrictions on use:** Contact manufacturer/supplier
- **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:** Product Safety 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.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS01

- **Signal word:** Warning
- **Hazard statements:**
H204 Fire or projection hazard.
- **Precautionary statements:**
 - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 - P250 Do not subject to grinding/shock/friction.
 - P280 Wear protective gloves / eye protection / face protection.
 - P373 DO NOT fight fire when fire reaches explosives.
 - P370+P380 In case of fire: Evacuate area.
 - P372 Explosion risk in case of fire.
 - P401 Store in accordance with local/regional/national/international regulations.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**
Normal handling of the unused product poses no exposure hazards. While particles from deployed product may be an inhalation hazard, the risk is slight where single exposures are concerned. When the product is used, particles and vapors may be generated which may cause temporary slight irritation to the

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respiratory tract. Possible temporary skin irritation may occur if internal contents of device come in contact with the skin or if vapors from detonated device contact skin. Irritation may occur if contents of unused device come in contact with eyes. Some temporary irritation may occur if particles generated during deployment lodge in the eyes.

· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 4

The substance possesses oxidizing properties.

· **HMIS-ratings (scale 0 - 4)**



Health = *1
Fire = 3
Reactivity = 4

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

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

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

Components for product possessing only physical hazards do not require reporting. These components are considered proprietary.

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

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Clean with water and soap.

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:**

Coughing

Mechanical irritation to eyes.

· **Danger:** Danger of blast or crush-type injuries.

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· **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.

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.

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

· **Advice for firefighters**

In case of fire, use normal fire fighting equipment. Protection concerns must also address the potential of the physical characteristic of this product as explosive. Quarantine area for at least 1600 feet / 500 meters from fires involving product. If fire reaches cargo, do not fight; withdraw personnel to safe distance. Evacuate all persons, including emergency responders from the area for 1600 feet / 500 meters in all directions.

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:**

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. Cool endangered receptacles with water spray.

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.

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Keep away from ignition sources.

Protect from heat.

· **Environmental precautions** No special measures required.

· **Methods and material for containment and cleaning up**

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

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Dispose contaminated material as waste according to item 13.

· **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.

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

Keep ignition sources away - Do not smoke.

Conditions to avoid include mechanical impact or shock, electrical discharge, high energy EM fields (radar stations).

Keep respiratory protective device available.

Substance/product can reduce the ignition temperature of flammable substances.

· **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.

Provide ventilation for receptacles.

Store in a cool location.

Protect from humidity and water.

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

Store away from foodstuffs.

Store away from flammable substances.

Do not store together with oxidizing and acidic materials.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· **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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid breathing dust.

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

· **Breathing equipment:** Use suitable respiratory protective device when high concentrations are present.

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- **Protection of hands:**
None required for handling unused product; where possible, use protective gloves for handling spent rounds.
- **Material of gloves** Strong gloves
- **Eye protection:**



Safety glasses

- **Body protection:**
Protective work clothing
Protection may be required for spills.
- **Limitation and supervision of exposure into the environment**
No relevant information available.
- **Risk management measures**
See Section 7 for additional information.
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 material
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:** Risk of explosion by shock, friction, fire or other sources of ignition.

· Explosion limits

Lower: Not determined.
Upper: Not determined.

- **Oxidizing properties:** Contains oxidizing agent.

- **Vapor pressure:** Not applicable.

- **Density:** Not determined.
- **Relative density:** Not determined.

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· Vapor density:	Not applicable.
· Evaporation rate:	Not applicable.
· Solubility in / Miscibility with Water:	Partly soluble.
· 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.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Visible decomposition with spontaneous ignition on heating.
To avoid thermal decomposition, do not overheat.
- **Possibility of hazardous reactions**
Fire or projection hazard.
Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid**
Cartridge may detonate if case is punctured or severely damaged.
Keep ignition sources away - Do not smoke.
Store away from oxidizing agents.
- **Incompatible materials** No relevant information available.
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Poisonous gases/vapors
Leadoxide vapor
Nitrogen oxides
Sulfur oxides (SOx)
Bariumoxide vapor
Aluminium oxide smoke
Toxic metal oxide smoke

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.

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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 used product are possibly irritating to eyes.
- **Sensitization:** No sensitizing effects known.

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

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

7440-02-0 | nickel

R

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

None of the ingredients are listed.

· **Probable route(s) of exposure:**

Ingestion.
Inhalation.
Eye contact.
Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):** From product as supplied: None.
- **Repeated dose toxicity:** From product as supplied: None.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity**

No data is available on this product, but leachates of metal components may be harmful or toxic to aquatic life and waterfowl. Collection and careful disposal of spent cartridges is highly advisable. Lead and nickel are especially problematic when introduced into many ecosystems.

· **Persistence and degradability**

The product is partially biodegradable. Significant residuals remain.
The organic portion of the product is biodegradable.

· **Bioaccumulative potential:** May be accumulated in organism

· **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.

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.

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13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Damaged materials pose a danger to anyone in the immediate area; consult experts for disposal of damaged products.

Must not be disposed of 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 packagings**

- **Recommendation:**

Disposal must be made according to official regulations.

Non contaminated packagings can be treated like household garbage.

- **Recommended cleansing agent:** Water only.

14 Transport information

- **UN-Number**

- DOT, ADR, IMDG, IATA

UN0297

- **UN proper shipping name**

- DOT, ADR, IMDG, IATA

Ammunition, illuminating with or without burster, expelling charge or propelling charge

- **Transport hazard class(es)**

- DOT



- Class

1.4

- Label

1.4G

- ADR, IMDG



- Class

1.4

- Label

1.4G

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· IATA



· Class 1.4
· Label 1.4G

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

· Environmental hazards
· Marine pollutant: Yes
Symbol (fish and tree)

· 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.

· 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 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

1333-86-4 carbon black

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· **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:**

None of the ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

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

None of the ingredients are listed.

· **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** 01/06/2017 / -

· **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 & Health

LDLo: Lowest Lethal Dose Observed

Expl. 1.4: Explosives – Division 1.4

· **Sources**

SDS Prepared by:

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