

# Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200)

Revision: January 15, 2020

## 1 Identification

- **Product identifier**
- **Trade name:** Cartridge, 12 Gauge Extended Range Nonlethal Point Round – M1116
- **Product code:** 3028M
- **Recommended use and restriction on use**
- **Recommended use:** Non-lethal round.
- **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:** Customer Care Department
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)



## 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.  
P372 Explosion risk in case of fire.  
P373 DO NOT fight fire when fire reaches explosives.  
P374 Fight fire with normal precautions from a reasonable distance.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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 they are dealing with a powerful force and that various devices and methods have been developed to assist them in directing this force. They should realize that this force, if

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misdirected, may either kill or injure both themselves and their 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, they should consult the manufacturer before use.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

9004-70-0	Nitrocellulose, colloided, granular ⚠ Expl. 1.1, H201	40-60%
55-63-0	glycerol trinitrate / nitroglycerin ⚠ Unst. Expl., H200 ⚠ Flam. Liq. 2, H225 ⚠ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 ⚠ STOT RE 2, H373	20-40%
8050-09-7	Rosin ⚠ Skin Sens. 1, H317	1-5%
122-39-4	diphenylamine ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ STOT RE 2, H373	<1%
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate ⚠ Unst. Expl., H200 ⚠ Repr. 1A, H360; STOT RE 2, H373 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<1%
10022-31-8	barium nitrate ⚠ Ox. Sol. 2, H272 ⚠ Acute Tox. 3, H301 ⚠ Acute Tox. 4, H332; Eye Irrit. 2A, H319	<1%
1345-04-6	antimony sulphide	<1%

· **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:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Unlikely route of exposure.  
Brush off loose particles from skin.  
If skin irritation is experienced, consult a doctor.
- **After eye contact:**

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Remove contact lenses if worn.

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

- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:** Blast injury if mishandled.
- **Danger:** Explosive crush or blast injury.
- **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:**  
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**  
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.  
Contains oxidizing agent.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:**  
Cool endangered receptacles with water spray.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
Eliminate all ignition sources if safe to do so.  
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**  
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.  
Isolate area and prevent access.  
Wear protective equipment. Keep unprotected persons away.  
Remove persons from danger area.  
Ensure adequate ventilation.  
Protect from heat.
- **Environmental precautions** No special measures required.
- **Methods and material for containment and cleaning up**  
Pick up mechanically.

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Dispose contaminated material as waste according to item 13.  
Send for recovery or disposal in suitable receptacles.

· **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:**

Protect from heat.

Contains oxidizing agent.

Emergency cooling must be available in case of nearby fire.

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

· **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:** Protect from humidity and water.

· **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:**

**55-63-0 glycerol trinitrate / nitroglycerin**

PEL (US) 最高容许浓度: 2 mg/m<sup>3</sup>, 0.2 ppm

Skin

REL (US) PC-STEL: 0.1 mg/m<sup>3</sup>

Skin

TLV (US) PC-TWA: 0.46 mg/m<sup>3</sup>, 0.05 ppm

Skin

EL (CA) PC-TWA: 0.05 ppm

Skin

EV (CA) PC-TWA: 0.5 mg/m<sup>3</sup>, 0.05 ppm

Skin

LMPE (MX) PC-TWA: 0.05 ppm

PIEL

**8050-09-7 Rosin**

TLV (US) PC-TWA: NIC-0.01\* mg/m<sup>3</sup>

\*inhalable fraction, NIC-DSEN, RSEN

EL (CA) S(D), S(R)

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LMPE (MX) | SEN, (L)

**122-39-4 diphenylamine**REL (US) | PC-TWA: 10 mg/m<sup>3</sup>TLV (US) | PC-TWA: 10 mg/m<sup>3</sup>EL (CA) | PC-TWA: 10 mg/m<sup>3</sup>EV (CA) | PC-TWA: 10 mg/m<sup>3</sup>LMPE (MX) | PC-TWA: 10 mg/m<sup>3</sup>  
A4**15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate**EV (CA) | PC-TWA: 0.05 mg/m<sup>3</sup>  
as Pb, Skin (organic compounds)**10022-31-8 barium nitrate**PEL (US) | PC-TWA: 0.5 mg/m<sup>3</sup>  
as BaREL (US) | PC-TWA: 0.5 mg/m<sup>3</sup>  
as BaTLV (US) | PC-TWA: 0.5 mg/m<sup>3</sup>  
as BaEL (CA) | PC-TWA: 0.5 mg/m<sup>3</sup>  
as BaLMPE (MX) | PC-TWA: 0.5 mg/m<sup>3</sup>  
A4; como Ba**1345-04-6 antimony sulphide**PEL (US) | PC-TWA: 0.5 mg/m<sup>3</sup>  
as SbREL (US) | PC-TWA: 0.5 mg/m<sup>3</sup>  
as SbTLV (US) | PC-TWA: 0.5 mg/m<sup>3</sup>  
as SbEL (CA) | PC-TWA: 0.5 mg/m<sup>3</sup>  
as SbLMPE (MX) | PC-TWA: 0.5 mg/m<sup>3</sup>  
como Sb

- **Exposure controls**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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

- **Breathing equipment:** Not required under normal conditions of use.

- **Protection of hands:**

Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.

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

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- **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

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:** Use personal protective equipment as required.

- **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.

No relevant information available.

## 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.

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

- **Vapor pressure:** Not applicable.

- **Density:** Not determined.

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· <b>Relative density:</b>	Not determined.
· <b>Vapor 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>Other information</b>	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.
- **Possibility of hazardous reactions**  
Danger of explosion.  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with strong acids and alkali.  
Reacts violently with oxidizing agents.
- **Conditions to avoid**  
Sources of ignition, open flame, incompatible materials.  
Protect from humidity and water.
- **Incompatible materials** Oxidizers
- **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:** Based on available data, the classification criteria are not met.

### LD/LC50 values that are relevant for classification:

#### 55-63-0 glycerol trinitrate / nitroglycerin

Oral	LD50	115 mg/kg (mouse) 105 mg/kg (rat)
Dermal	LD50	29 mg/kg (rat) 280 mg/kg (rabbit)

#### 122-39-4 diphenylamine

Oral	LD50	1120 mg/kg (rat)
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**15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate**

Oral	LD50	650 mg/kg (rat)
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- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**

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

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate	2B
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· **NTP (National Toxicology Program):**

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate	R
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· **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):** Explosive crush or blast injury.
- **Repeated dose toxicity:** No relevant information available.
- **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:** Based on available data, the classification criteria are not met.
- **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** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** May be accumulated in organism
- **Mobility in soil:** No relevant information available.
- **Ecotoxic 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.
- **Other adverse effects** No relevant information available.

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## 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/RID/ADN, IMDG, IATA UN0012

- **UN proper shipping name**

- DOT, IMDG, IATA CARTRIDGES FOR WEAPONS, INERT PROJECTILE
- ADR/RID/ADN 0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE

- **Transport hazard class(es)**

- DOT



- Class 1.4
- Label 1.4S

- ADR/RID/ADN, IMDG



- Class 1.4
- Label 1.4S

- IATA



- Class 1.4
- Label 1.4S

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· <b>Packing group</b>	
· DOT, ADR/RID/ADN, IMDG, IATA	II
· <b>Environmental hazards</b>	
· <b>Marine pollutant:</b>	No Yes (DOT) Symbol (fish and tree)
· <b>Special precautions for user</b>	Not applicable.
· <b>EMS Number:</b>	F-A,S-Q
· <b>Segregation groups</b>	Heavy metals and their salts (including their organometallic compounds)
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

## 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):**

55-63-0 | glycerol trinitrate / nitroglycerin

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed or exempt.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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

15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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## 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**

H200 Unstable explosive.  
 H201 Explosive; mass explosion hazard.  
 H225 Highly flammable liquid and vapor.  
 H272 May intensify fire; oxidizer.  
 H300 Fatal if swallowed.  
 H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H310 Fatal in contact with skin.  
 H311 Toxic in contact with skin.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 H360 May damage fertility or the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.

- **Date of preparation / last revision** January 15, 2020 / -

- **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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 OSHA: Occupational Safety & Health Administration  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Expl. 1.1: Explosives – Division 1.1  
 Expl. 1.4: Explosives – Division 1.4  
 Unst. Expl.: Explosives – Unstable explosive  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Ox. Sol. 2: Oxidizing solids – Category 2  
 Acute Tox. 2: Acute toxicity – Category 2  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 1: Acute toxicity – Category 1  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Repr. 1A: Reproductive toxicity – Category 1A  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- **Sources**

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