

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 23, 2020

1 Identification

- **Product identifier**
- **Trade name: 40MM 48 Caliber Military Crowd Dispersal Smokeless Round**
- **Product code:** M1029, 6095M
- **Recommended use and restriction on use**
- **Recommended use:** Explosive product.
- **Restrictions on use:** No relevant information available.
- **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
(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.
 P240 Ground/bond container and receiving equipment.
 P250 Do not subject to grinding/shock/friction.
 P280 Wear protective gloves and eye protection.
 P370+P380 In case of fire: Evacuate area.
 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.
 P401 Store in accordance with local/regional/national/international regulations.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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Health = 3
Fire = 0
Instability = 4

· **HMIS-ratings (scale 0 - 4)**



Health = *3
Fire = 0
Reactivity = 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 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 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%
84-74-2	Dibutyl phthalate ⚠ Repr. 1B, H360	<5.0%
8050-09-7	Rosin ⚠ Skin Sens. 1, H317	<5.0%
85-98-3	1,3-diethyldiphenylurea ⚠ Acute Tox. 4, H302	<5.0%
86-30-6	nitrosodiphenylamine ⚠ Acute Tox. 3, H301	<5.0%
7757-79-1	Potassium nitrate ⚠ Ox. Sol. 2, H272	<5.0%

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122-99-6	2-phenoxyethanol ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319	<1.0%
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	<1.0%
10022-31-8	barium nitrate ⚠ Ox. Sol. 2, H272 ⚠ Acute Tox. 3, H301 ⚠ Acute Tox. 4, H332; Eye Irrit. 2A, H319	<1.0%

· **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:**
 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.
- **Advice for firefighters**
- **Protective equipment:**
 Wear self-contained respiratory protective device.
 Wear fully protective suit.
- **Additional information:**

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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.

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.

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:** Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

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· Control parameters

· Components with limit values that require monitoring at the workplace:

55-63-0 glycerol trinitrate / nitroglycerin

PEL (USA)	Ceiling limit value: 2 mg/m ³ , 0.2 ppm Skin
REL (USA)	Short-term value: 0.1 mg/m ³ Skin
TLV (USA)	Long-term value: 0.46 mg/m ³ , 0.05 ppm Skin
EL (Canada)	Long-term value: 0.05 ppm Skin
EV (Canada)	Long-term value: 0.5 mg/m ³ , 0.05 ppm Skin
LMPE (Mexico)	Long-term value: 0.05 ppm PIEL

84-74-2 Dibutyl phthalate

PEL (USA)	Long-term value: 5 mg/m ³
REL (USA)	Long-term value: 5 mg/m ³
TLV (USA)	Long-term value: 5 mg/m ³
EL (Canada)	Long-term value: 5 mg/m ³ R
EV (Canada)	Long-term value: 5 mg/m ³
LMPE (Mexico)	Long-term value: 5 mg/m ³

8050-09-7 Rosin

TLV (USA)	Long-term value: NIC-0.01* mg/m ³ *inhalable fraction, NIC-DSEN, RSEN
EL (Canada)	S(D), S(R)
LMPE (Mexico)	SEN, (L)

122-39-4 diphenylamine

REL (USA)	Long-term value: 10 mg/m ³
TLV (USA)	Long-term value: 10 mg/m ³
EL (Canada)	Long-term value: 10 mg/m ³
EV (Canada)	Long-term value: 10 mg/m ³
LMPE (Mexico)	Long-term value: 10 mg/m ³ A4

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

EV (Canada)	Long-term value: 0.05 mg/m ³ as Pb, Skin (organic compounds)
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10022-31-8 barium nitrate

PEL (USA)	Long-term value: 0.5 mg/m ³ as Ba
REL (USA)	Long-term value: 0.5 mg/m ³

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TLV (USA)	as Ba Long-term value: 0.5 mg/m ³
EL (Canada)	as Ba Long-term value: 0.5 mg/m ³
LMPE (Mexico)	as Ba Long-term value: 0.5 mg/m ³ A4; como Ba

· 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

· 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.

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

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· 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.
· 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.
- **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.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide

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Nitrogen oxides
Sulfur oxides (SOx)

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· 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)

84-74-2 Dibutyl phthalate

Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	20000 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:

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. Vapours/particles from used product are possibly irritating to eyes.

· IARC (International Agency for Research on Cancer):

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate	2B
86-30-6	nitrosodiphenylamine	3

· 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.

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.

· Ecotoxicological effects:

· **Remark:** Harmful to fish

· Additional ecological information

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· **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.

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

· ADR/RID/ADN

CARTRIDGES FOR WEAPONS, INERT PROJECTILE
0012, CARTRIDGES FOR WEAPONS, INERT
PROJECTILE

· **Transport hazard class(es)**

· DOT



· **Class**

1.4

· **Label**

1.4S

· ADR/RID/ADN, IMDG



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· Class	1.4
· Label	1.4S

· IATA	
	
· Class	1.4
· Label	1.4S
· Packing group	
· DOT, ADR/RID/ADN, IMDG, IATA	II
· Environmental hazards	
· Marine pollutant:	No Yes (DOT) Symbol (fish and tree)
· Special precautions for user	Not applicable.
· EMS Number:	F-A,S-Q
· Segregation groups	Heavy metals and their salts (including their organometallic compounds)
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	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 313 (Specific toxic chemical listings):

55-63-0 glycerol trinitrate / nitroglycerin

84-74-2 Dibutyl phthalate

122-39-4 diphenylamine

7757-79-1 Potassium nitrate

86-30-6 nitrosodiphenylamine

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

· Proposition 65 (California)

· Chemicals known to cause cancer:

86-30-6 nitrosodiphenylamine

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15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
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· Chemicals known to cause developmental toxicity for females:

84-74-2	Dibutyl phthalate
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· Chemicals known to cause developmental toxicity for males:

84-74-2	Dibutyl phthalate
---------	-------------------

· Chemicals known to cause developmental toxicity:

84-74-2	Dibutyl phthalate
---------	-------------------

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate
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· EPA (Environmental Protection Agency):

84-74-2	Dibutyl phthalate	D
86-30-6	nitrosodiphenylamine	B2
7440-50-8	Copper	D
7440-66-6	zinc metal	D, I, II

· IARC (International Agency for Research on Cancer):

86-30-6	nitrosodiphenylamine	3
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate	2B

· Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

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.

· 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
 OSHA: Occupational Safety & Health Administration
 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
 Repr. 1B: Reproductive toxicity – Category 1B
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· Sources

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