

Safety Data Sheet

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

Revision: July 09, 2019


1 Identification

- **Product identifier**
- **Trade name:** **Tactical Diversionary Device Non Reloadable**
Tactical Diversionary Device Non Reloadable with Safety Clip
- **Product code:**
8909NR (1318832)
8909NRSC (1318833)
- **Recommended use and restriction on use**
- **Recommended use:** Explosive product.
- **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.
- **Additional information:**
There are no other hazards not otherwise classified that have been identified.
0 % of the mixture consists of component(s) of unknown toxicity.

- **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.
P370+P380 In case of fire: Evacuate area.
P372 Explosion risk in case of fire.
P373 DO NOT fight fire when fire reaches explosives.

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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.

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:

7778-74-7	Potassium perchlorate ⚠ Ox. Sol. 1, H271 ⚠ Acute Tox. 4, H302	20-40%
7429-90-5	Aluminium ⚠ Pyr. Sol. 1, H250; Water-react. 2, H261	20-40%
7439-95-4	magnesium powder (pyrophoric) ⚠ Pyr. Sol. 1, H250; Water-react. 1, H260	20-40%
7440-50-8	Copper	1-5%
592-87-0	lead dithiocyanate ⚠ Carc. 2, H351; Repr. 1A, H360; STOT RE 2, H373 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	0.1-0.5%
10294-40-3	barium chromate ⚠ Carc. 1A, H350 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	0.1-0.5%

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

Notable Trace Components (< 0.1% w/w)

7758-97-6	lead chromate	⚠ Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373
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4 First-aid measures

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- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
 Unlikely route of exposure.
 Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
 Generally the product does not irritate the skin.
 Wash with soap and water.
 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:**
 Unlikely route of exposure.
 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:**
 DO NOT fight fire when fire reaches explosives.
 Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
 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.
 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
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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.

Remove persons from danger area.

Ensure adequate ventilation.

Wear protective clothing.

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.
- **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.
Do not subject to grinding/shock/friction.
- **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:** Store in a cool location.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
- **Further information about storage conditions:** Keep away from heat.
- **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:

7429-90-5 Aluminium

PEL (USA)	Long-term value: 15*; 5** mg/m ³ *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction

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EL (Canada)	Long-term value: 1.0 mg/m ³ respirable, as Al
EV (Canada)	Long-term value: 5 mg/m ³ aluminium-containing (as aluminium)
LMPE (Mexico)	Long-term value: 1* mg/m ³ A4, *fracción respirable

7440-50-8 Copper

PEL (USA)	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
REL (USA)	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
TLV (USA)	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu
EL (Canada)	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume, as Cu
EV (Canada)	Long-term value: 0.2* 1** mg/m ³ as copper, *fume; **dust and mists
LMPE (Mexico)	Long-term value: 0.2* 1** mg/m ³ *humo (como Cu); **polvo y niebla (como Cu)

592-87-0 lead dithiocyanate

PEL (USA)	Long-term value: 5 mg/m ³ as CN; Skin
EV (Canada)	Long-term value: 0.05 mg/m ³ as Pb, Skin (organic compounds)

10294-40-3 barium chromate

PEL (USA)	Long-term value: 0.005* mg/m ³ Ceiling limit value: 0.1** mg/m ³ *as Cr(VI) **as CrO ₃ ; see 29 CFR 1910.1026
REL (USA)	Long-term value: 0.0002 mg/m ³ as Cr; See Pocket Guide Apps. A and C
TLV (USA)	Short-term value: 0.0005 mg/m ³ Long-term value: 0.0002 mg/m ³ as Cr; inhalable, DSEN, RSEN
EL (Canada)	Long-term value: 0.01 mg/m ³ as Cr; ACGIH A1, IARC 1; S(D), S(R)
LMPE (Mexico)	Long-term value: 0.01 mg/m ³ A1; como Cr

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)
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10 µg/L
 Medium: urine
 Time: increase during shift
 Parameter: Total chromium (fume)

- **Exposure controls**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- **Engineering controls:** No relevant information available.

- **Breathing equipment:**

Not required under normal conditions of use.

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

- **Protection of hands:**



Protective gloves

When needed, wear gloves for protection against mechanical hazards.

- **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**

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

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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):	Fire or projection hazard.
· 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 determined.
· Density:	Not determined.
· Relative density:	Not determined.
· Vapor density:	Not applicable.
· Evaporation rate:	Not applicable.
· Solubility in / Miscibility with Water:	Variable, dependent upon product composition and packaging.
· 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:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- **Possibility of hazardous reactions**
Fire or projection hazard.
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** No relevant information available.
- **Incompatible materials** No relevant information available.
- **Hazardous decomposition products** Leadoxide vapor

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11 Toxicological information

· Information on toxicological effects

This is a packaged product that will not result in exposure to the contents under normal conditions of use. In the event of exposure, administer first aid appropriate for symptoms present.

· Acute toxicity:

· **LD/LC50 values that are relevant for classification:** None.

· 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.

· **Sensitization:** Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

592-87-0	lead dithiocyanate	2B
10294-40-3	barium chromate	1
1309-37-1	Diiron trioxide / iron (III) oxide	3

· NTP (National Toxicology Program):

592-87-0	lead dithiocyanate	R
10294-40-3	barium chromate	K
7758-97-6	lead chromate	K

· 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.

· Additional ecological information

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· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

· **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.

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.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· DOT, ADR/RID/ADN, IMDG, IATA UN0452

· **UN proper shipping name**

· DOT Grenades, Practice
 · ADR/RID/ADN 0452 GRENADES, PRACTICE
 · IMDG, IATA GRENADES, PRACTICE

· **Transport hazard class(es)**

· DOT



· Class 1.4
 · Label 1.4

· **ADR/RID/ADN**



· Class 1.4 (-)
 · Label 1.4G

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· **IMDG, IATA**



· **Class** 1.4
· **Label** 1.4G

· **Packing group**
· **DOT, ADR/RID/ADN, IMDG, IATA** II

· **Environmental hazards** Not applicable.

· **Special precautions for user** Not applicable.
· **EMS Number:** F-B,S-X

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

None of the ingredients are listed.

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

7429-90-5 Aluminium

7440-50-8 Copper

7440-66-6 zinc metal

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

All ingredients are listed or exempt.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

592-87-0 lead dithiocyanate

10294-40-3 barium chromate

7758-97-6 lead chromate

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

10294-40-3 barium chromate

7758-97-6 lead chromate

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

10294-40-3	barium chromate
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7758-97-6	lead chromate
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· **Chemicals known to cause developmental toxicity:**

10294-40-3	barium chromate
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7758-97-6	lead chromate
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· **EPA (Environmental Protection Agency):**

7778-74-7	Potassium perchlorate	NL
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7440-50-8	Copper	D
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7440-66-6	zinc metal	D, I, II
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10294-40-3	barium chromate	A(inh), D(oral), K/L(inh), CBD(oral)
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· **IARC (International Agency for Research on Cancer):**

10294-40-3	barium chromate	1
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· **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Expl. 1.4: Explosives – Division 1.4

Pyr. Sol. 1: Pyrophoric solids – Category 1

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – 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

Acute Tox. 4: Acute toxicity – Category 4

Carc. 1A: Carcinogenicity – Category 1A

Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity – Category 1A

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· **Sources**

SDS Prepared by:

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