Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier
Product Name • Shotshell 8 Guage Industrial Loaded Round
Synonyms • Shotshell 8 Guage Industrial Lead Shot Load; Shotshell 8 Guage Industrial Lead Slug Load; Shotshell 8 Guage Industrial Zinc Slug Load
SDS Number/Grade • SS8GA

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s) • Industrial

1.3 Details of the supplier of the safety data sheet
Manufacturer • Remington Arms
2592 AR HWY 15 N
Lonoke, AR 72086
United States
www.remington.com
Telephone (General) • 501-676-3161

1.4 Emergency telephone number
Manufacturer • (800) 424-9300 - CHEMTREC
Manufacturer • 501-676-3161 - Company Emergency Telephone Number

Section 2: Hazards Identification

EU/EEC

2.1 Classification of the substance or mixture
CLP • Explosives 1.4 - H204
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
Hazardous to the aquatic environment Acute 1 - H400
Hazardous to the aquatic environment Chronic 1 - H410

2.2 Label Elements
CLP

WARNING
Hazard statements • H204 - Fire or projection hazard
H335 - May cause respiratory irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
P240 - Ground and/or bond container and receiving equipment.
P250 - Do not subject to grinding/shock/friction.
P261 - Avoid breathing dust/fume.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P370+P380 - In case of fire: Evacuate area.
P372 - Explosion risk in case of fire.
P373 - DO NOT fight fire when fire reaches explosives.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P391 - Collect spillage.

Storage/Disposal • P401 - Store in accordance with local, regional, national, and/or international regulations.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP • Exposure to antimony can cause what are known as antimony spots which is a rash characterized by papules and pustules that resembles chicken pox. Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain. According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Explosives 1.4
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Reproductive Toxicity 1A
Hazards Not Otherwise Classified - Health Hazards - Metal Fume Fever and Antimony Spots

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements • Fire or projection hazard
May cause respiratory irritation
May damage fertility or the unborn child.
Precautionary statements

Prevention
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
- Ground and/or bond container and receiving equipment.
- Do not subject to grinding/shock/friction.
- Avoid breathing dust/fume.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.

Response
- In case of fire: Evacuate area.
- Explosion risk in case of fire.
- DO NOT fight fire when fire reaches explosives.
- Fight fire with normal precautions from a reasonable distance.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.

Storage/Disposal
- Store in accordance with local, regional, national, and/or international regulations.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012
- Exposure to antimony can cause what are known as antimony spots which is a rash characterized by papules and pustules that resembles chicken pox. Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

3.1 Substances
- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc</td>
<td>CAS:7440-66-6 EC Number:231-175-3</td>
<td>3% TO 78%</td>
<td>NDA</td>
<td>EU CLP: Not Classified OSHA HCS 2012: Comb. Dust; HNOC Health: Metal fume fever</td>
<td>NDA</td>
</tr>
<tr>
<td>Lead</td>
<td>CAS:7439-92-1 EC Number:231-100-4</td>
<td>77% TO 78%</td>
<td>NDA</td>
<td>EU CLP: Carc. 2, H351 (Inhalation); Repr. 1A, H360 (Oral, Inhalation); STOT RE 1, H372 (CNS, GI / Oral,Inhalation); Aquatic Acute 1, H400; Aquatic Chronic 1, H410  OSHA HCS 2012: Comb. Dust; Carc. 2 (Inhalation); Repr. 1A (Oral, Inhalation); STOT RE 1 (CNS, GI / Oral,Inhalation)</td>
<td>NDA</td>
</tr>
<tr>
<td>Copper</td>
<td>CAS:7440-50-8 EC Number:231-159-6</td>
<td>6% TO 8%</td>
<td>NDA</td>
<td>EU CLP: STOT SE 3: Resp. Irrit., H335 OSHA HCS 2012: Comb. Dust; STOT SE 3: Resp. Irrit.</td>
<td>NDA</td>
</tr>
</tbody>
</table>
### Antimony

**CAS:** 7440-36-0  
**EINECS:** 231-146-5  
**Ingestion/Oral-Rat LD50:** 100 mg/kg

**EU CLP:** Acute Tox. 3, H301; Repr. 2, H361d (Dermal, Inhalation); STOT RE 2, H373 (Lungs / Inhalation); Aquatic Chronic 2, H411  
**OSHA HCS 2012:** Comb. Dust; Acute Tox. 3 (Oral); Repr. 2 (Dermal, Inhalation); STOT RE 2 (Lungs / Inhalation); HNOC Health: Causes Antimony spots

### Nitroglycerin

**CAS:** 55-63-0  
**EC Number:** 200-240-8  
**Ingestion/Oral-Rat LD50:** >280 mg/kg

**EU CLP:** Expl. 1.1, H201; Acute Tox. 2 *, H330; Acute Tox. 2 *, H300; STOT RE 2 *, H373; Aquatic Chronic 2, H411  
**OSHA HCS 2012:** Expl. 1.1; Acute Tox. 3; Eye Irrit. 2; Skin Sens. 1

### Iron

**CAS:** 7439-89-6  
**EC Number:** 231-096-4  
**Ingestion/Oral-Rat LD50:** 750 mg/kg

**EU CLP:** Acute Tox. 4, H302; Aquatic Chronic 4, H413  
**OSHA HCS 2012:** Acute Tox. 4 (Oral)

### Arsenic

**CAS:** 7440-38-2  
**EC Number:** 231-148-6  
**Ingestion/Oral-Rat LD50:** 763 mg/kg

**EU CLP:** Annex VI, Table 3.1: Acute Tox. 3 *, H331; Acute Tox. 3 *, H301; Aquatic Acute 1, H400; Aquatic Chronic 1, H410  
**OSHA HCS 2012:** Carc. 1A; Acute Tox 4 (oral); STOT RE 2 (Liver, Peripheral Nervous System, Bone Marrow)

### Carbon

**CAS:** 7440-44-0  
**EC Number:** 231-153-3  
**Ingestion/Oral-Rat LD50:** >5 g/kg

**EU CLP:** Not Classified  
**OSHA HCS 2012:** Comb. Dust

### Nitrate cellulose

**CAS:** 9004-70-0  
**EU Index:** 603-037-00-6  
**Ingestion/Oral-Rat LD50:** >5 g/kg

**EU CLP:** Expl. 1.1, H201  
**OSHA HCS 2012:** Expl. 1.1

### Barium

**CAS:** 7440-39-3  
**EINECS:** 231-149-1  
**Ingestion/Oral-Rat LD50:** >5 g/kg

**EU CLP:** Not Classified  
**OSHA HCS 2012:** Comb. Dust

### 2,4,6-Trinitro-1,3-benzenediol lead salt

**CAS:** 15245-44-0  
**EC Number:** 239-290-0  
**Ingestion/Oral-Rat LD50:** >5 g/kg

**EU CLP:** Expl. 1.1., H201; Repr. 1A, H360Df; Acute Tox. 4 *, H302; STOT RE 2 *, H373***; Aquatic Acute 1, H400; Aquatic Chronic 1, H410  
**OSHA HCS 2012:** Expl. 1.1; Repr. 1A; STOT RE 1 (Liver, Kidney, Blood, Nervous System)

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### Section 4 - First Aid Measures

**4.1 Description of first aid measures**

**Inhalation**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

**Skin**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention.

**Eye**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Remove contact lenses if worn. Flush eyes with water for at least 15 minutes. If signs/symptoms develop, get medical attention.

**Ingestion**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Give plenty of water to drink. Induce vomiting (only in conscious persons) Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- No specific actions or treatments recommended related to exposure to this material.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- Water, carbon dioxide, dry chemical, earth.

Unsuitable Extinguishing Media

- No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- May ignite if heated above 130°C.
- Will ignite when exposed to flame and high temperatures.
- Be cautious of low-energy fragments.
- Packages bearing the 1.4S label or packages containing material classified as 1.4S are designed or packaged in such a manner that when involved in a fire, may burn vigorously with localized detonations and projection of fragments.
- Effects are usually confined to immediate vicinity of packages.

Hazardous Combustion Products

- No data available

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.
- Evacuate area.
- Flood fire with water to fight fire and cool shells. If no water is available, use carbon dioxide, dry chemical or earth.
- Fight fire with normal precautions from a reasonable distance.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not walk through spilled material. Do not strike or crush the rounds.

Emergency Procedures

- Eliminate all ignition sources. If fire threatens cargo area containing packages bearing the 1.4S label or packages containing material classified as 1.4S, consider isolating at least 15 meters (50 feet) in all directions. In fire situations move people out of line of site of the scene and away from windows. Use normal clean up procedures.

6.2 Environmental precautions

- No special environmental precautions necessary.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Use clean nonsparking tools to collect material.
- Carefully shovel or sweep up spilled material and place in suitable container.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Handle with care. Do not strike or crush the rounds. Avoid breathing dust or fume. Use
personal protective equipment as required. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

**Storage**
- Keep only in the original container. Store in a cool, dry, well-ventilated place. Keep away from sources of ignition – No Smoking. Do not subject to mechanical shock. Keep out of reach of children. This product must not be stored with acids, strong oxidizers or caustics.

7.3 Specific end use(s)
- Refer to Section 1.2 - Relevant identified uses.

---

### Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Antimony</strong></td>
<td>Result: TWAs 0.5 mg/m3 TWA, ACGIH Not established, Germany DFG Not established, Germany TRGS Not established, NIOSH 0.5 mg/m3 TWA, OSHA 0.5 mg/m3 TWA</td>
</tr>
<tr>
<td><strong>Arsenic (7440-38-2)</strong></td>
<td>TWAs: 0.01 mg/m3 TWA, ACGIH Not established, Germany DFG Not established, Germany TRGS Not established, NIOSH 0.002 mg/m3 Ceiling (15 min), OSHA Not established</td>
</tr>
<tr>
<td><strong>Barium (7440-39-3)</strong></td>
<td>TWAs: 0.5 mg/m3 TWA, ACGIH Not established, Germany DFG Not established, Germany TRGS Not established, NIOSH Not established, OSHA Not established</td>
</tr>
<tr>
<td><strong>Nitroglycerin (55-63-0)</strong></td>
<td>TWAs: 0.05 ppm TWA, ACGIH Not established, Germany DFG Not established, Germany TRGS Not established, NIOSH 0.01 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1), OSHA 0.094 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1), NIOSH Not established, OSHA Not established</td>
</tr>
<tr>
<td><strong>Zinc (7440-66-6)</strong></td>
<td>Ceilings: Not established, Germany DFG Not established, Germany TRGS Not established, NIOSH Not established, OSHA 0.2 ppm Ceiling; 2 mg/m3 Ceiling</td>
</tr>
<tr>
<td><strong>MAKs</strong></td>
<td>Not established, Germany DFG Not established, Germany TRGS Not established, NIOSH Not established, OSHA Not established</td>
</tr>
<tr>
<td><strong>MAKs</strong></td>
<td>Not established, Germany DFG Not established, Germany TRGS Not established, NIOSH Not established, OSHA Not established</td>
</tr>
<tr>
<td><strong>MAKs</strong></td>
<td>Not established, Germany DFG Not established, Germany TRGS Not established, NIOSH Not established, OSHA Not established</td>
</tr>
</tbody>
</table>
8.2 Exposure controls
Engineering Measures/Controls
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment
- Respiratory
  - Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face
- Wear safety glasses.

Skin/Body
- Wear protective clothing

Environmental Exposure Controls
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Additional Protection Measures
- Hearing protection recommended when firing rounds.

Key to abbreviations
- ACGIH = American Conference of Governmental Industrial Hygiene
- BEI = Biological Exposure Indices
- MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
- NIOSH = National Institute of Occupational Safety and Health
- OSHA = Occupational Safety and Health Administration
- STEL = Short Term Exposure Limits are based on 15-minute exposures
- TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Brass or silver/gray metal and multiple colored plastic with no odor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Metal: Brass, Silver/Gray; Plastic: Multiple.</td>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Data lacking</td>
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General Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Data lacking</td>
<td>Melting Point/Freezing Point</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>93.3 °C (199.94 °F)</td>
<td>pH</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>Data lacking</td>
<td>Water Solubility</td>
</tr>
<tr>
<td>Solvent Solubility</td>
<td>Data lacking</td>
<td>Viscosity</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Data lacking</td>
<td>Oxidizing Properties:</td>
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</table>

Volutility

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>Data lacking</td>
<td>Vapor Density</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Data lacking</td>
<td></td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>121 °C (249.8 °F)</td>
<td>UEL</td>
</tr>
<tr>
<td>LEL</td>
<td>Data lacking</td>
<td>Autoignition</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Data lacking</td>
<td></td>
</tr>
</tbody>
</table>

Environmental

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other Information
Section 10: Stability and Reactivity

10.1 Reactivity
- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions
- Hazardous polymerization will not occur.

10.4 Conditions to avoid
- Flames, sparks, percussion, shock, static, high temperatures (266ºF or 130ºC, or above)

10.5 Incompatible materials
- Acids, strong oxidizers, caustics

10.6 Hazardous decomposition products
- No data available.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

| Components | Acute Toxicity: Ingestion/Oral-Mouse TDLo • 108 mg/kg; Behavioral: Tremor; Gastrointestinal: Hypermotility, diarrhea; Gastrointestinal: Nausea or vomiting; Ingestion/Oral-Mouse TDLo • 158 mg/kg; Kidney, Ureter, and Bladder: Changes in tubules (including acute renal failure, acute tubular necrosis); Ingestion/Oral-Mouse TDLo • 232 mg/kg; Kidney, Ureter, and Bladder: Changes primarily in glomeruli; Blood: Changes in spleen; Blood: Changes in serum composition (e.g., TP, bilirubin cholesterol); Multi-dose Toxicity: Ingestion/Oral-Rabbit TDLo • 3 g/kg 60 Day(s)-Continuous; Cardiac: Other changes; Liver: Hepatitis (hepatocellular necrosis), zonal; Related to Chronic Data: Death in the Other Multiple Dose data type field; Reproductive: Ingestion/Oral-Rat TDLo • 1520 µg/kg (22W pre); Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system; Ingestion/Oral-Rat TDLo • 152 mg/kg (22W pre); Reproductive Effects: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects: Specific Developmental Abnormalities: Central nervous system; Ingestion/Oral-Rat TDLo • 1210 µg/kg (35W pre); Reproductive Effects: Effects on Fertility: Pre-implantation mortality; Reproductive Effects: Effects on Fertility: Post-implantation mortality; Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 10.08 mg/kg 12 Week(s)-Continuous; Tumorigenic: Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration: Other changes |

| Copper (6% TO 8%) | 7440-50-8 |

| Components | Irritation: Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 12.6 mg/kg 46 Week(s)-Continuous; Tumorigenic: Carcinogenic by RTECS criteria; Gastrointestinal: Tumors; Tumorigenic: Facilitates action of known carcinogen |

| Zinc (3% TO 78%) | 7440-66-6 |

| Components | Acute Toxicity: Ingestion/Oral-Rat LD50 • 105 mg/kg; Behavioral: Somnolence (general depressed activity); Ingestion/Oral-Woman TDLo • 5 mg/kg; Behavioral: General anesthetic; Cardiac: Other changes; Kidney, Ureter, and Bladder: Incontinence; Skin-Rabbit LD50 • >280 mg/kg; Irritation: Eye-Rabbit • 0.1 mL; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Reproductive: Skin-Rat TDLo • 3640 mg/kg (17-21D preg/21D post); Reproductive Effects: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects: Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive); Tumorigen / Carcinogen: Ingestion/Oral-Rat TDLo • 240170 mg/kg 2 Year(s)-Intermittent; Tumorigenic: Equivocal tumorigenic agent by RTECS criteria; Liver: Tumors; Tumorigenic: Increased incidence of tumors in susceptible strains |

| Nitroglycerin (0.6% TO 2.8%) | 55-63-0 |
### Nitrate cellulose (< 0.2%)

<table>
<thead>
<tr>
<th>9004-70-0</th>
</tr>
</thead>
</table>

**Acute Toxicity:** Ingestion/Oral-Woman TDLo • 450 mg/kg 6 Year(s); *Peripheral Nerve and Sensation: Flaccid paralysis without anesthesia (usually neuromuscular blockage); Behavioral: Hallucinations, distorted perceptions; Behavioral: Muscle weakness; Inhalation-Human TCLo • 10 µg/m³; Gastrointestinal: Gastritis; Liver: Other changes; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 43.75 mg/kg 1 Week(s)-Continuous; Blood: Other changes; Kidney, Ureter, and Bladder: Other changes in urine composition; Biochemical: Metabolism (intermediary): Purpura, including bile pigments; Inhalation-Human TCLo • 0.011 mg/m³ 26 Week(s)-Intermittent; Brain and Coverings: Other degenerative changes; Inhalation-Man TCLo • 0.109 mg/m³ 5 Year(s)-Intermittent; Reproductive Effects: Paternal Effects: Spermatogenesis; Inhalation-Man TCLo • 0.03 mg/m³ 5 Year(s)-Intermittent; Endocrine: Androgenic; Mutagen: Cytogenetic analysis • Ingestion/Oral-Monkey • 42 mg/kg 30 Week(s); Cytogenetic analysis • Inhalation-Rat • 23 µg/m³ 16 Week(s); Reproductive: Ingestion/Oral-Rat TDLo • 790 mg/kg (multigenerations); Reproductive Effects: Effects on Embryo or Fetus: Feto-toxicity (except death, e.g., stunted fetus); Reproductive Effects: Effects on Embryo or Fetus: Fetal death; Inhalation-Rat TCLo • 10 mg/m³ 24 Hour(s) (1-21D preg); Reproductive Effects: Effects on Embryo or Fetus: Feto-toxicity (except death, e.g., stunted fetus); Reproductive Effects: Specific Developmental Abnormalities: Blood and lymphatic system

### Lead (77% TO 78%)

<table>
<thead>
<tr>
<th>7439-92-1</th>
</tr>
</thead>
</table>

**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 763 mg/kg; Behavioral: Ataxia; Gastrointestinal: Hypermotility, diarrhea; Mutagen: Sister chromatid exchange • Ingestion/Oral-Human • 0.211 mg/L 15 Year(s); Cytogenetic analysis • Ingestion/Oral-Mouse • 280 mg/kg 8 Week(s); Reproductive: Ingestion/Oral-Mouse TDLo • 187 mg/kg (8-18D preg); Reproductive Effects: Specific Developmental Abnormalities: Hepatobiliary system; Ingestion/Oral-Rat TDLo • 580 µg/kg (30W pre/1-20D preg); Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system; Ingestion/Oral-Rat TDLo • 605 µg/kg (35W pre); Reproductive Effects: Effects on Fertility: Pre-implantation mortality; Reproductive Effects: Effects on Fertility: Post-implantation mortality

### Arsenic (0.1% TO 1.3%)

<table>
<thead>
<tr>
<th>7440-38-2</th>
</tr>
</thead>
</table>

**Acute Toxicity:** Ingestion/Oral-Rat TDLo • 26622 mg/kg 69 Week(s)-Continuous; Vascular: BP elevation not characterized in autonomic section; Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Cytochrome oxidases (including oxidative phosphorylation); Biochemical: Metabolism (intermediary): Xanthine, purine, or nucleotides including urate

### Barium (< 0.2%)

<table>
<thead>
<tr>
<th>7440-39-3</th>
</tr>
</thead>
</table>

**Multi-dose Toxicity:** Ingestion/Oral-Rat TDLo • 26622 mg/kg 69 Week(s)-Continuous; Vascular: BP elevation not characterized in autonomic section; Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Cytochrome oxidases (including oxidative phosphorylation); Biochemical: Metabolism (intermediary): Xanthine, purine, or nucleotides including urate

### Antimony (0% TO 5%)

<table>
<thead>
<tr>
<th>7440-36-0</th>
</tr>
</thead>
</table>

**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 100 mg/kg; Inhalation-Human TCLo • 10 mg/m³ 8 Hour(s); Behavioral: Muscle weakness; Gastrointestinal: Nausea or vomiting; Nutritional and Gross Metabolism: Changes in Chemistry or Temperature: Body temperature increase; Inhalation-Human TCLo • 13.5 mg/m³ 4 Hour(s); Sense Organs and Special Senses: Olfaction: Other changes; Blood: Hemorrhage; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m³ 7 Hour(s) 52 Week(s)-Intermittent; Tumorigenic: Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration: Tumors

### Iron (0.8% TO 2%)

<table>
<thead>
<tr>
<th>7439-89-6</th>
</tr>
</thead>
</table>

**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 750 mg/kg; Blood: Changes in serum composition (e.g., TP, bilirubin cholesterol); Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Transaminases; Ingestion/Oral-Child TDLo • 77 mg/kg; Behavioral: Irritability; Gastrointestinal: Nausea or vomiting; Blood: Normocytic anemia; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 105 mg/kg 5 Week(s)-Continuous; Liver: Tumors; Tumorigenic: Active as anti-cancer agent; Tumorigenic: Protects against induction of experimental tumors

### GHS Properties

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
</table>

### Acute toxicity

| EU/CLP | Data lacking |
| OSHA HCS 2012 | Data lacking |

### Skin corrosion/Irritation

| EU/CLP | Data lacking |
| OSHA HCS 2012 | Data lacking |

### Serious eye damage/Irritation

| EU/CLP | Data lacking |
| OSHA HCS 2012 | Data lacking |

### Skin sensitization

| EU/CLP | Data lacking |
| OSHA HCS 2012 | Data lacking |

---

Preparation Date: 25/October/2010
Revision Date: EU CLP, OSHA HCS 2012

Page 10 of 23
Respiratory sensitization

- EU/CLP: Data lacking
- OSHA HCS 2012: Data lacking

Aspiration Hazard

- EU/CLP: Data lacking
- OSHA HCS 2012: Data lacking

Carcinogenicity

- EU/CLP: Data lacking
- OSHA HCS 2012: Data lacking

Germ Cell Mutagenicity

- EU/CLP: Data lacking
- OSHA HCS 2012: Data lacking

Toxicity for Reproduction

- EU/CLP: Data lacking
- OSHA HCS 2012: Toxic to Reproduction 1A

STOT-SE

- EU/CLP: Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- OSHA HCS 2012: Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

STOT-RE

- EU/CLP: Data lacking
- OSHA HCS 2012: Data lacking

Potential Health Effects

Inhalation

- **Acute (Immediate)**
  - Inhalation of dust or fumes may cause irritation to nose, throat, upper respiratory tract and lungs. Irritation may lead to bronchitis, headache, lowering of blood pressure and weakness.

- **Chronic (Delayed)**
  - No data available

Skin

- **Acute (Immediate)**
  - May cause allergic reaction (sensitization) in susceptible individuals.

- **Chronic (Delayed)**
  - No data available

Eye

- **Acute (Immediate)**
  - Dust and fumes can irritate the eyes causing redness and discharge.

- **Chronic (Delayed)**
  - No data available

Ingestion

- **Acute (Immediate)**
  - Ingestion is not anticipated to be a likely route of exposure to this product.

- **Chronic (Delayed)**
  - No data available

Other

- **Chronic (Delayed)**
  - When the ammunition is fired, a small amount of particles may be generated. The particles may contain trace amounts of these harmful substances: Inhalation of high concentrations of metallic copper dusts or fumes may cause nasal irritation and/or nausea, vomiting and stomach pain. Chronic exposure to lead can cause kidney damage, anemia, reproductive effects, developmental effects and permanent nervous system damage in humans including changes in cognitive function.

Carcinogenic Effects

- This product is not classified a carcinogen by IARC, OSHA, NTP or EPA. However, there are some components that are carcinogens according to these agencies.

<table>
<thead>
<tr>
<th>Carcinogenic Effects</th>
<th>CAS</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>Group 1-Carcinogenic</td>
<td>Known Human Carcinogen</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt as Lead Compounds</td>
<td>NDA</td>
<td>Not Listed</td>
<td>Reasonably Anticipated to be Human Carcinogen</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Group 2A-Probable Carcinogen</td>
<td>Reasonably Anticipated to be Human Carcinogen</td>
</tr>
</tbody>
</table>

Reproductive Effects

- Repeated and prolonged exposure may cause reproductive effects.
11.2 Other information

- Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain. Exposure to antimony can cause what are known as antimony spots which is a rash characterized by papules and pustules that resembles chicken pox.

Key to abbreviations
LD = Lethal Dose
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

<table>
<thead>
<tr>
<th>CAS</th>
<th>Aquatic Toxicity-Fish: 96 Hour(s) LC50 Cyprinus carpio (Common Carp) 0.4 mg/L Comments: Lead (7439-92-1) 28 Day(s) NOEC Cyprinus carpio (Common Carp) 0.00003 mg/L Comments: Lead (7439-92-1) 96 Hour(s) LC50 Mudskipper (Periophthalmus waltoni) 0.00648 mg/L Comments: Iron (7439-89-6) 7 Day(s) NOEC Brown Trout (Salmo trutta) 0.305 mg/L Comments: Iron (7439-89-6) 96 Hour(s) LC50 Cyprinodon variegatus (Sheepshead Minnow) 6.2 mg/L Comments: Antimony (7440-36-0) 4 Day(s) LC50 Bluegill 0.87-3.25 mg/L Comments: Nitroglycerin (55-63-0) Aquatic Toxicity-Crustacea: 2 Day(s) EC50 Water flea 38-55 mg/L Comments: Nitroglycerin (55-63-0) 7 Day(s) NOEC Daphnia magna (Water Flea) 3.9 mg/L Comments: Antimony (7440-36-0) 7 Day(s) NOEC Aquatic Sowbug, Isopod (Idotea balthica) 0.5 mg/L Comments: Iron (7439-89-6) 28 Day(s) NOEC Hyalella azteca (Scud) 0.006 mg/L Comments: Lead (7439-92-1) Aquatic Toxicity-Algae and Other Aquatic Plant(s): 72 Hour(s) EC50 Chaetoceros sp. (Diatom) 0.105 mg/L Comments: Lead (7439-92-1) 4 Day(s) EC50 Green Algae 0.1-1.3 mg/L Comments: Nitroglycerin (55-63-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shotshell 8 Guage Industrial Loaded Round</td>
<td>NDA</td>
</tr>
</tbody>
</table>

- Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability
- Material data lacking.

12.3 Bioaccumulative potential
- Material data lacking.

12.4 Mobility in Soil
- Material data lacking.

12.5 Results of PBT and vPvB assessment
- PBT and vPvB assessment has not been conducted for this material.

12.6 Other adverse effects
- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste
Section 14 - Transport Information

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
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</thead>
<tbody>
<tr>
<td>DOT</td>
<td>UN0012</td>
<td>Cartridges, small arms</td>
<td>1.4S</td>
<td>II</td>
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<td>Cartridges, small arms</td>
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<td>NDA</td>
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</tr>
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<td>TDG</td>
<td>UN0012</td>
<td>CARTRIDGES, SMALL ARMS</td>
<td>1.4S</td>
<td>II</td>
<td>NDA</td>
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<td>IMO/IMDG</td>
<td>UN0012</td>
<td>CARTRIDGES, SMALL ARMS</td>
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<td>Cartridges, small arms</td>
<td>1.4S</td>
<td>NDA</td>
<td>NDA</td>
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</tbody>
</table>

14.6 Special precautions for user
- None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Not relevant.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
- Acute, Chronic, Pressure(Sudden Release of)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
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<tbody>
<tr>
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<td>No</td>
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<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
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<td>Yes</td>
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<td>Carbon</td>
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<td>Lead</td>
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<tr>
<td>Nitrate cellulose</td>
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Inventory

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<th>TSCA</th>
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<tr>
<td>Antimony</td>
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<tr>
<td>Carbon</td>
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</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
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<td>Iron</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
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</tr>
<tr>
<td>Nitrate cellulose</td>
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</tr>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
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<td></td>
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<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Europe

**Other**

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

- Nitroglycerin
  - 55-63-0 T+; R26/27/28 E; R3 R33 N; R51-53
  - Xn; R20/22 E; R3 R33 N; R50-53 Repr.Cat.1; R61 Repr.Cat.3; R62

- 2,4,6-Trinitro-1,3-benzenediol lead salt
  - 15245-44-0 Not Listed

- Barium
  - 7440-39-3 Not Listed
- Carbon
  - 7440-44-0 Not Listed
- Copper
  - 7440-50-8 Not Listed
- Lead
  - 7439-92-1 Not Listed
- Antimony
  - 7440-36-0 Not Listed
- Arsenic
  - 7440-38-2 T; R23/25 N; R50-53
- Zinc
  - 7440-66-6 Not Listed
- Iron
  - 7439-89-6 Not Listed
- Nitrate cellulose
  - 9004-70-0 E; R3

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**

- Nitroglycerin
  - 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt
  - 15245-44-0 Not Listed
- Barium
  - 7440-39-3 Not Listed
- Carbon
  - 7440-44-0 Not Listed
- Copper
  - 7440-50-8 Not Listed
- Lead
  - 7439-92-1 Not Listed
- Antimony
  - 7440-36-0 Not Listed
- Arsenic
  - 7440-38-2 Not Listed
- Zinc
  - 7440-66-6 Not Listed
- Iron
  - 7439-89-6 Not Listed
- Nitrate cellulose
  - 9004-70-0 Not Listed

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**

- Nitroglycerin
- 2,4,6-Trinitro-1,3-benzenediol lead salt
- Barium
  - 7440-39-3 Not Listed
- Carbon
  - 7440-44-0 Not Listed
- Copper
  - 7440-50-8 Not Listed
- Lead
  - 7439-92-1 Not Listed
- Antimony
  - 7440-36-0 Not Listed
- Arsenic
  - 7440-38-2 Not Listed
- Zinc
  - 7440-66-6 Not Listed
<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
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<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>E R:3 S:(2)-35</td>
</tr>
</tbody>
</table>

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 E, 1
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 Not Listed
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 Not Listed
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
- Nitrate cellulose 9004-70-0 T

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**

- Nitroglycerin 55-63-0 S:(1/2)-33-35-36/37-45-61
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 S:53-45-60-61
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 Not Listed
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 S:(1/2)-20/21-28-45-60-61
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
- Nitrate cellulose 9004-70-0 S:(2)-35

**United States**

**Labor**

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 Not Listed
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 Not Listed
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
- Nitrate cellulose 9004-70-0 2500 lb TQ (concentration >12.6% Nitrogen)

**U.S. - OSHA - Specifically Regulated Chemicals**

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 Not Listed
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 Not Listed
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
- Nitrate cellulose 9004-70-0 30 µg/m3 Action Level (See 29 CFR 1910.1025); 50 µg/m3 TWA (See 29 CFR 1910.1025)
<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony</td>
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<td>Iron</td>
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<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
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</tbody>
</table>

**Environment**

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
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<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
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<td>Barium</td>
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<td>Copper</td>
<td>7440-50-8</td>
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<td>Lead</td>
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<td>Not Listed</td>
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<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
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</tbody>
</table>

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Reportable Quantities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>10 lb final RQ; 4.54 kg final RQ</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
<td>15245-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Barium</td>
<td>7440-39-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm)</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm)</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm)</td>
</tr>
<tr>
<td>Substance</td>
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</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>1 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm); 0.454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm)</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 Not Listed
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 Not Listed
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
- Nitrate cellulose 9004-70-0 Not Listed

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 Not Listed
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 Not Listed
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
- Nitrate cellulose 9004-70-0 Not Listed

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
• Copper 7440-50-8 Not Listed
• Lead 7439-92-1 Not Listed
• Antimony 7440-36-0 Not Listed
• Arsenic 7440-38-2 Not Listed
• Zinc 7440-66-6 Not Listed
• Iron 7439-89-6 Not Listed
• Nitrate cellulose 9004-70-0 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Nitroglycerin 55-63-0 1.0 % de minimis concentration
• 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
• Barium 7440-39-3 1.0 % de minimis concentration
• Carbon 7440-44-0 Not Listed
• Copper 7440-50-8 1.0 % de minimis concentration

• Lead 7439-92-1

• Antimony 7440-36-0 1.0 % de minimis concentration
• Arsenic 7440-38-2 0.1 % de minimis concentration (when contained in stainless steel, brass, or bronze)
• Zinc 7440-66-6 1.0 % de minimis concentration (dust or fume only)
• Iron 7439-89-6 Not Listed
• Nitrate cellulose 9004-70-0 Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Nitroglycerin 55-63-0 Not Listed
• 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
• Barium 7440-39-3 Not Listed
• Carbon 7440-44-0 Not Listed
• Copper 7440-50-8 Not Listed
  100 lb RT (this lower threshold does not apply to lead when it is contained in stainless steel, brass or bronze alloy)

• Lead 7439-92-1

• Antimony 7440-36-0 Not Listed
• Arsenic 7440-38-2 Not Listed
• Zinc 7440-66-6 Not Listed
• Iron 7439-89-6 Not Listed
• Nitrate cellulose 9004-70-0 Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Nitroglycerin 55-63-0 Not Listed
• 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
  Included in waste stream: F039
• Barium 7440-39-3 Not Listed
• Carbon 7440-44-0 Not Listed
  Included in waste streams: F035, F037, F038, F039, K002,
<table>
<thead>
<tr>
<th>Constituent</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>K003, K005, K046, K048, K049, K051, K052, K061, K062, K069, K086, K100, K176</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>Included in waste streams: F039, K021, K161, K177</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>Included in waste streams: F032, F034, F035, F039, K031, K060, K084, K101, K102, K161, K171, K172, K176</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
<td>15245-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Barium</td>
<td>7440-39-3</td>
<td>(total)</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>(total)</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>(total)</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>(total)</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>(total)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>(total)</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
<td>15245-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Barium</td>
<td>7440-39-3</td>
<td>100.0 mg/L regulatory level</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>5.0 mg/L regulatory level</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>5.0 mg/L regulatory level</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>waste number P081</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
<td>15245-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Barium</td>
<td>7440-39-3</td>
<td>hazardous constituent - no waste number</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>hazardous constituent - no waste number</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>hazardous constituent - no waste number</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>hazardous constituent - no waste number</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
### U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
<td>15245-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Barium</td>
<td>7440-39-3</td>
<td>(total)</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>(total)</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>(total)</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>(total)</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>(total)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>(total)</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. - RCRA (Resource Conservation & Recovery Act) - P Series Wastes - Acutely Toxic Wastes

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>waste number P081 (Reactive waste)</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
<td>15245-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Barium</td>
<td>7440-39-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
<td>15245-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Barium</td>
<td>7440-39-3</td>
<td>1.2 mg/L (wastewater); 21 mg/L TCLP (nonwastewater)</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>0.69 mg/L (wastewater); 0.75 mg/L TCLP (nonwastewater)</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>1.9 mg/L (wastewater); 1.15 mg/L TCLP (nonwastewater)</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>1.4 mg/L (wastewater); 5.0 mg/L TCLP (nonwastewater)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>2.61 mg/L (wastewater); 4.3 mg/L TCLP (nonwastewater)</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2,4,6-Trinitro-1,3-benzenediol lead salt</td>
<td>15245-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Barium</td>
<td>7440-39-3</td>
<td>(total)</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>(total)</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>(total)</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>(total)</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>(total)</td>
</tr>
</tbody>
</table>
### United States - California

#### Environment

**U.S. - California - Proposition 65 - Carcinogens List**

- Nitroglycerin: 55-63-0, Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt: 15245-44-0, Not Listed
- Barium: 7440-39-3, Not Listed
- Carbon: 7440-44-0, Not Listed
- Copper: 7440-50-8, Not Listed
- Lead: 7439-92-1, carcinogen, initial date 10/1/92
- Antimony: 7440-36-0, Not Listed
- Arsenic: 7440-38-2, Not Listed
- Zinc: 7440-66-6, Not Listed
- Iron: 7439-89-6, Not Listed
- Nitrate cellulose: 9004-70-0, Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

- Nitroglycerin: 55-63-0, Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt: 15245-44-0, Not Listed
- Barium: 7440-39-3, Not Listed
- Carbon: 7440-44-0, Not Listed
- Copper: 7440-50-8, Not Listed
- Lead: 7439-92-1, developmental toxicity, initial date 2/27/87
- Antimony: 7440-36-0, Not Listed
- Arsenic: 7440-38-2, Not Listed
- Zinc: 7440-66-6, Not Listed
- Iron: 7439-89-6, Not Listed
- Nitrate cellulose: 9004-70-0, Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

- Nitroglycerin: 55-63-0, Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt: 15245-44-0, Not Listed
- Barium: 7440-39-3, Not Listed
- Carbon: 7440-44-0, Not Listed
- Copper: 7440-50-8, Not Listed
- Lead: 7439-92-1, 0.5 µg/day MADL
- Antimony: 7440-36-0, Not Listed
- Arsenic: 7440-38-2, Not Listed
- Zinc: 7440-66-6, Not Listed
- Iron: 7439-89-6, Not Listed
- Nitrate cellulose: 9004-70-0, Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

- Nitroglycerin: 55-63-0, Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt: 15245-44-0, Not Listed
- Barium: 7440-39-3, Not Listed
- Carbon: 7440-44-0, Not Listed
- Copper: 7440-50-8, Not Listed
- Lead: 7439-92-1, 15 µg/day NSRL (oral)
- Antimony: 7440-36-0, Not Listed
<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>0.06 µg/day NSRL (inhalation); 10 µg/day NSRL (except inhalation)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Nitrate cellulose</td>
<td>9004-70-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 female reproductive toxicity, initial date 2/27/87
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 Not Listed
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
| Nitrate cellulose | 9004-70-0 | Not Listed |

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 Not Listed
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 male reproductive toxicity, initial date 2/27/87
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 Not Listed
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
| Nitrate cellulose | 9004-70-0 | Not Listed |

**United States - Pennsylvania**

**Labor**

**U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
- Carbon 7440-44-0 (dust and fume)
- Copper 7440-50-8 Not Listed
- Lead 7439-92-1 Not Listed
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 (inorganic)
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed
| Nitrate cellulose | 9004-70-0 | Not Listed |

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

- Nitroglycerin 55-63-0 Not Listed
- 2,4,6-Trinitro-1,3-benzenediol lead salt 15245-44-0 Not Listed
- Barium 7440-39-3 Not Listed
15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H201 - Explosive; mass explosion hazard
- H300 - Fatal if swallowed
- H301 - Toxic if swallowed
- H302 - Harmful if swallowed
- H310 - Fatal in contact with skin
- H330 - Fatal if inhaled
- H331 - Toxic if inhaled
- H351 - Suspected of causing cancer.
- H360 - May damage fertility or the unborn child.
- H360Df - May damage the unborn child. Suspected of damaging fertility.
- H361d - Suspected of damaging the unborn child.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H411 - Toxic to aquatic life with long lasting effects
- H413 - May cause long lasting harmful effects to aquatic life

Revision Date

- No data available

Preparation Date

- 25/October/2010

Disclaimer/Statement of Liability

- The information contained in this Safety Data Sheet is provided to all individuals who are or will be exposed to this product through use, handling, storage or transport. Remington believes, yet makes no warranty, that all information contained in this document is current as of the date of publication.

Key to abbreviations

NDA = No Data Available