**SECTION 1: Identification**

1.1. **Identification**

Product form: Article
Product name: Centerfire Rifle and Centerfire Pistol Ammunition - with Frangible (powdered iron core) bullets
Synonyms: Remington Disintegrator® Frangible

1.2. **Recommended use and restrictions on use**

Recommended use: Ammunition
Restrictions on use: Uses other than listed on the manufacturer product label

1.3. **Supplier**

Remington Arms Company, LLC
1816 Remington Circle SW
Huntsville, AL 35824
T 1-800-243-9700 - F 1-336-548-7801

1.4. **Emergency telephone number**

Emergency number: CHEMTREC 1-800-424-9300

**SECTION 2: Hazard(s) identification**

2.1. **Classification of the substance or mixture**

GHS US classification:

<table>
<thead>
<tr>
<th>Expl. 1.4</th>
<th>H204</th>
<th>Fire or projection hazard</th>
</tr>
</thead>
</table>

Full text of hazard classes and H-statements : see section 16

2.2. **GHS Label elements, including precautionary statements**

GHS US labeling:

Hazard pictograms (GHS US):

- 

Signal word (GHS US): Warning
Hazard statements (GHS US): H204 - Fire or projection hazard
Precautionary statements (GHS US):

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 - Ground/Bond container and receiving equipment.
- P250 - Do not subject to grinding/shock/friction.
- P280 - Wear protective gloves/protective clothing/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.
- P374 - Fight fire with normal precautions from a reasonable distance.
- P401 - Store in accordance with local regulations on explosives.
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. **Other hazards which do not result in classification**

Other hazards not contributing to the classification:

- This product is considered an explosive article. Each product covered by this Safety Data Sheet is sealed ammunition. The ammunition contains hazardous substances, which under normal conditions of use are not in contact with the user. If the item is fractured or intentionally disassembled prior to actuation, exposure to the contents is fatal if inhaled, is toxic if swallowed, is toxic in contact with skin, may cause genetic defects, may cause cancer, causes damage to organs through prolonged or repeated exposure, is suspected of damaging fertility or the unborn child, may cause an allergic skin reaction and may cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.4. **Unknown acute toxicity (GHS US)**

Not applicable
SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>(CAS-No.) 7440-50-8</td>
<td>30 - 50</td>
<td>Not classified</td>
</tr>
<tr>
<td>Nitrocellulose</td>
<td>(CAS-No.) 9004-70-0</td>
<td>2 - 12</td>
<td>Expl. 1.1, H201</td>
</tr>
<tr>
<td>Tin</td>
<td>(CAS-No.) 7440-31-5</td>
<td>0 - 8</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Nitroglycerin</td>
<td>(CAS-No.) 55-63-0</td>
<td>0 - 2</td>
<td>Unst. Expl, H200, Acute Tox. 2 (Oral), H300, Acute Tox. 1 (Dermal), H310, Acute Tox. 2 (Inhalation:dust,mist), H330, STOT RE 2, H373, Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Dibutyl phthalate</td>
<td>(CAS-No.) 84-74-2</td>
<td>0 - 0.75</td>
<td>Repr. 1B, H360, Aquatic Acute 1, H400</td>
</tr>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt</td>
<td>(CAS-No.) 15245-44-0</td>
<td>&lt; 0.2</td>
<td>Unst. Expl, H200, Acute Tox. 4 (Oral), H302, Acute Tox. 4 (Inhalation:dust,mist), H332, Carc. 1B, H350, STOT RE 2, H373, Aquatic Acute 1, H400, Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures
First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary
Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

5.2. Specific hazards arising from the chemical
Explosion hazard : Explosion risk in case of fire.

5.3. Special protective equipment and precautions for fire-fighters
Firefighting instructions : Evacuate area. Do not fight fire when fire reaches explosives. Fight fire with normal precautions from a reasonable distance.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures : No open flames, no sparks, and no smoking. Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.
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6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up:
- Notify authorities if product enters sewers or public waters. In case of large spillages: Shovel or sweep up and put in a closed container for disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

Other information:
- Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling:
- Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Do not subject to grinding, shock, friction. Wear personal protective equipment.

Hygiene measures:
- Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures:
- Ground/bond container and receiving equipment.

Storage conditions:
- Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>USA - ACGIH - Occupational Exposure Limits</th>
<th>USA - OSHA - Occupational Exposure Limits</th>
<th>USA - OSHA - Occupational Exposure Limits (Ceiling)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>ACGIH TWA (mg/m³) 0.2 mg/m³ (fume)</td>
<td>OSHA PEL (TWA) (mg/m³) 0.1 mg/m³ (fume)</td>
<td>OSHA PEL (Ceiling) (mg/m³) 2 mg/m³</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>7440-66-6</td>
<td>7440-66-6</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>7439-89-6</td>
<td>7439-89-6</td>
</tr>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>7440-31-5</td>
<td>7440-31-5</td>
</tr>
<tr>
<td>Nitrocellulose</td>
<td>9004-70-0</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>0.05 ppm</td>
<td>0.05 ppm 0.2 ppm</td>
</tr>
<tr>
<td>ACGIH TWA (ppm)</td>
<td>0.05 ppm</td>
<td>ACGIH chemical category</td>
<td>Skin - potential significant contribution to overall exposure by the cutaneous route</td>
</tr>
<tr>
<td>OSHA PEL (mg/m³)</td>
<td>2 mg/m³</td>
<td>OSHA PEL (Ceiling) (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>OSHA PEL (ppm)</td>
<td>0.2 ppm</td>
<td>OSHA PEL (Ceiling) (ppm)</td>
<td>0.2 ppm 0.2 ppm</td>
</tr>
<tr>
<td>Limit value category (OSHA)</td>
<td>prevent or reduce skin absorption</td>
<td>prevent or reduce skin absorption</td>
<td>prevent or reduce skin absorption</td>
</tr>
</tbody>
</table>
Dibutyl phthalate (84-74-2)

USA - ACGIH - Occupational Exposure Limits
ACGIH TWA (mg/m³)  5 mg/m³

USA - OSHA - Occupational Exposure Limits
OSHA PEL (TWA) (mg/m³)  5 mg/m³

1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Solid.</td>
</tr>
<tr>
<td>Color</td>
<td>Metallic</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>9.2. Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

10.1. Reactivity

Fire or projection hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion, forms: carbon oxides (CO and CO2).

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

| Acute toxicity (oral) | : Not classified. |
| Acute toxicity (dermal) | : Not classified. |
| Acute toxicity (inhalation) | : Not classified. |

<table>
<thead>
<tr>
<th>Tin (7440-31-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>ATE US (oral)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nitrocellulose (9004-70-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nitroglycerin (55-63-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>ATE US (oral)</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dibutyl phthalate (84-74-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Toxicology Program (NTP) Status</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In OSHA Hazard Communication Carcinogen list</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>STOT-single exposure</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nitroglycerin (55-63-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT-repeated exposure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT-repeated exposure</td>
</tr>
</tbody>
</table>

| Aspiration hazard                                       | Not classified                                    |
| Viscosity, kinematic                                    | No data available                                 |
| Symptoms/effects                                        | Not expected to present a significant hazard under anticipated conditions of normal use. |

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**Copper (7440-50-8)**

| LC50 fish 1                                              | 0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas) |
|---------------------------------------------------------|
| EC50 Daphnia 1                                          | 0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])       |
| LC50 fish 2                                              | < 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])|

**Nitroglycerin (55-63-0)**

| LC50 fish 1                                              | 0.87 - 3.25 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
|---------------------------------------------------------|
| EC50 Daphnia 1                                          | 46 - 55 mg/l (Exposure time: 48 h - Species: Daphnia magna)              |
| LC50 fish 2                                              | 0.87 - 2.21 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 2                                          | 38 - 55 mg/l (Exposure time: 48 h - Species: Daphnia magna)              |

**Dibutyl phthalate (84-74-2)**

| LC50 fish 1                                              | 0.71 - 1.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
|---------------------------------------------------------|
| EC50 Daphnia 1                                          | 2.99 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])            |
| LC50 fish 2                                              | 0.31 - 5.45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2                                          | 3.4 mg/l (Exposure time: 48 h - Species: Pimephales promelas [Static])       |

**12.2. Persistence and degradability**

<table>
<thead>
<tr>
<th>Centerfire Rifle and Centerfire Pistol Ammunition - with Frangible (powdered iron core) bullets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

**12.3. Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Centerfire Rifle and Centerfire Pistol Ammunition - with Frangible (powdered iron core) bullets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
</tr>
</tbody>
</table>

**Dibutyl phthalate (84-74-2)**

| Log Pow                                              | 5.38 (at 25 °C)                                     |

**12.4. Mobility in soil**

<table>
<thead>
<tr>
<th>Centerfire Rifle and Centerfire Pistol Ammunition - with Frangible (powdered iron core) bullets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - soil</td>
</tr>
</tbody>
</table>
12.5. Other adverse effects

Effect on global warming: Not established

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

**SECTION 14: Transport information**

**Department of Transportation (DOT)**

In accordance with DOT

- Transport document description: UN0012 Cartridges, small arms, 1.4, II
- UN-No. (DOT): UN0012
- Proper Shipping Name (DOT): Cartridges, small arms
- Class (DOT): 1.4 - Class 1.4 - Explosives (with no significant blast hazard) 49 CFR 173.50
- Packing group (DOT): II - Medium Danger
- DOT Packaging Bulk (49 CFR 173.xxx): None
- DOT Packaging Exceptions (49 CFR 173.xxx): 63
- DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 25 kg
- DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 100 kg
- DOT Vessel Stowage Other: 25 - Protected from sources of heat
- Other information: No supplementary information available.

**Transport by sea**

- Transport document description (IMDG): UN 0012 CARTRIDGES, SMALL ARMS, 1.4
- UN-No. (IMDG): 0012
- Proper Shipping Name (IMDG): CARTRIDGES, SMALL ARMS
- Class (IMDG): 1 - Explosives
- Limited quantities (IMDG): 5 kg

**Air transport**

- Transport document description (IATA): UN 0012 Cartridges, small arms, 1.4S
- UN-No. (IATA): 0012
- Proper Shipping Name (IATA): Cartridges, small arms
- Class (IATA): 1 - Explosive

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory
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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS-No.</th>
<th>% in Ammunition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (7440-50-8)</td>
<td>7440-50-8</td>
<td>30 - 50%</td>
</tr>
<tr>
<td>Zinc (7440-66-6)</td>
<td>7440-66-6</td>
<td>10 - 16%</td>
</tr>
<tr>
<td>Nitroglycerin</td>
<td>55-63-0</td>
<td>0 - 2%</td>
</tr>
<tr>
<td>Dibutyl phthalate</td>
<td>84-74-2</td>
<td>0 - 0.75%</td>
</tr>
</tbody>
</table>

**Copper (7440-50-8)**
CERCLA RQ 5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm

**Zinc (7440-66-6)**
CERCLA RQ 454 kg no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm

**Nitrocellulose (9004-70-0)**
EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

**Nitroglycerin (55-63-0)**
CERCLA RQ 10 lb

**Dibutyl phthalate (84-74-2)**
Listed on EPA Hazardous Air Pollutant (HAPS) CERCLA RQ 10 lb

15.2. International regulations

**CANADA**

**Copper (7440-50-8)**
Listed on the Canadian DSL (Domestic Substances List)

**Zinc (7440-66-6)**
Listed on the Canadian DSL (Domestic Substances List)

**Iron (7439-89-6)**
Listed on the Canadian DSL (Domestic Substances List)

**Tin (7440-31-5)**
Listed on the Canadian DSL (Domestic Substances List)

**Nitrocellulose (9004-70-0)**
Listed on the Canadian DSL (Domestic Substances List)

**Nitroglycerin (55-63-0)**
Listed on the Canadian DSL (Domestic Substances List)

**Dibutyl phthalate (84-74-2)**
Listed on the Canadian DSL (Domestic Substances List)

1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)
Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

**Copper (7440-50-8)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Zinc (7440-66-6)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Iron (7439-89-6)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Tin (7440-31-5)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
## Centerfire Rifle and Centerfire Pistol Ammunition - with Frangible (powdered iron core) bullets

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### National regulations

<table>
<thead>
<tr>
<th>Chemical Substance</th>
<th>Listed in:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitroglycerin (55-63-0)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td>Dibutyl phthalate (84-74-2)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td>1,3-Benzenediols, 2,4,6-trinitro-, lead salt (15245-44-0)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
</tbody>
</table>

### Copper (7440-50-8)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on CICR (Turkish Inventory and Control of Chemicals)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

### Zinc (7440-66-6)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

### Iron (7439-89-6)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

### Tin (7440-31-5)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

### Nitrocellulose (9004-70-0)

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)
Centerfire Rifle and Centerfire Pistol Ammunition - with Frangible (powdered iron core) bullets
Safety Data Sheet

Nitroglycerin (55-63-0)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Japanese Pollutant Release and Transfer Register Law (PRTR Law)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

Dibutyl phthalate (84-74-2)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Japanese Pollutant Release and Transfer Register Law (PRTR Law)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

1,3-Benzenediol, 2,4,6-trinitro- , lead salt (15245-44-0)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Japanese Poisonous and Deleterious Substances Control Law
- Japanese Pollutant Release and Transfer Register Law (PRTR Law)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

⚠️ WARNING: This product can expose you to Dibutyl phthalate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper(7440-50-8)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>Zinc(7440-66-6)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>Tin(7440-31-5)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>Nitrocellulose(9004-70-0)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
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<td>Nitroglycerin(55-63-0)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
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<tr>
<td>Dibutyl phthalate(84-74-2)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
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<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro- , lead salt(15245-44-0)</td>
<td>U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Centerfire Rifle and Centerfire Pistol Ammunition - with Frangible (powdered iron core) bullets
Safety Data Sheet

Revision date : 02/18/2020
Other information :

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H-phrases:

Acute Tox. 1 (Dermal)  
Acute toxicity (dermal) Category 1

Acute Tox. 2 (Inhalation:dust,mist)  
Acute toxicity (inhalation:dust,mist) Category 2

Acute Tox. 2 (Oral)  
Acute toxicity (oral) Category 2

Acute Tox. 4 (Inhalation:dust,mist)  
Acute toxicity (inhalation:dust,mist) Category 4

Acute Tox. 4 (Oral)  
Acute toxicity (oral) Category 4

Aquatic Acute 1  
Hazardous to the aquatic environment - Acute Hazard Category 1

Aquatic Chronic 1  
Hazardous to the aquatic environment - Chronic Hazard Category 1

Aquatic Chronic 2  
Hazardous to the aquatic environment - Chronic Hazard Category 2

Carc. 1B  
Carcinogenicity Category 1B

Expl. 1.1  
Explosive Category 1.1

Expl. 1.4  
Explosive Category 1.4

Repr. 1B  
Reproductive toxicity Category 1B

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

Unst. Expl  
Unstable explosives

H200  
Unstable explosive

H201  
Explosive; mass explosion hazard

H204  
Fire or projection hazard

H300  
Fatal if swallowed

H302  
Harmful if swallowed

H310  
Fatal in contact with skin

H330  
Fatal if inhaled

H332  
Harmful if inhaled

H350  
May cause cancer

H360  
May damage fertility or the unborn child

H373  
May cause damage to organs through prolonged or repeated exposure

H400  
Very toxic to aquatic life

H410  
Very toxic to aquatic life with long lasting effects

H411  
Toxic to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

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