### SECTION 1: Identification

#### 1.1. Identification
- **Product form**: Article
- **Product name**: Centerfire Primed Brass Shells
- **Synonyms**: Ultimate Muzzleloader Ignition Source

#### 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 1-334-548-7801

#### 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**: Expl. 1.4 H204 Fire or projection hazard

#### 2.2. GHS Label elements, including precautionary statements
- **GHS US labeling**
  - **Signal word (GHS US)**: Warning
  - **Hazard pictograms (GHS US)**: 
  - **Hazard statements (GHS US)**: H204 - Fire or projection hazard
  - **Precautionary statements (GHS US)**:
    - P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
    - P240 - Ground/Bond container and receiving equipment
    - P250 - Do not subject to grinding/shock/friction.
    - P260 - 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 material is considered an explosive article. The cartridge contains hazardous substances, which under normal conditions of use are not in contact with the user. If the item is fractured or disassembled prior to actuation, exposure to contents may cause cancer and damage to organs through prolonged or repeated exposure.

#### 2.4. Unknown acute toxicity (GHS US)
- **Not applicable**

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances
- **Not applicable**

#### 3.2. Mixtures
- **Not applicable**
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.
Chronic symptoms: May cause cancer.

4.3. Immediate medical attention and special treatment, if necessary

Not applicable.

Section 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Unsuitable extinguishing media: Not determined.

5.2. Specific hazards arising from the chemical

Explosion hazard: Explosion risk in case of fire.
Reactivity: Fire or projection hazard.

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. Do not breathe dust/fume/gas/mist/vapors/spray. Only qualified personnel equipped with suitable protective equipment may intervene. 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".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment: Collect spillage.
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.
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. Do not breathe dust/fume/gas/mist/vapors/spray. Do not handle until all safety precautions have been read and understood. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation.

HYGIENE MEASURES:
Separate work clothes from street clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Technical measures: Ground/bond container and receiving equipment.
Storage conditions: Store locked up. Store in a well-ventilated place. Keep cool.

EXPOSURE CONTROLS/PERSONAL PROTECTION:
CONTROL PARAMETERS:

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (mg/m³)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (7440-50-8)</td>
<td>0.2 mg/m³ (fume) 1 mg/m³ (dust and mist)</td>
<td>0.1 mg/m³ (fume) 1 mg/m³ (dust and mist)</td>
</tr>
<tr>
<td>Zinc (7440-66-6)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

APPROPRIATE ENGINEERING CONTROLS:
Ensure good ventilation of the work station.
Avoid release to the environment.

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

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>Color</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</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>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Relative evaporation rate (butyl acetate=1): No data available

Flammability (solid, gas): Not flammable.

Vapor pressure: No data available

Relative vapor density at 20 °C: No data available

Relative density: Not applicable

Solubility: No data available

Log Pow: No data available

Auto-ignition temperature: Not applicable

Decomposition temperature: No data available

Viscosity, kinematic: Not applicable

Viscosity, dynamic: No data available

Explosion limits: Not applicable

Explosive properties: No data available

Oxidizing properties: No data available

9.2. Other information

No additional information available

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

Strong oxidizing agents.

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.

1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)

ATE US (oral) 500 mg/kg body weight

ATE US (dust, mist) 1.5 mg/l/4h

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified.

1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)

National Toxicology Program (NTP) Status Reasonably anticipated to be Human Carcinogen

In OSHA Hazard Communication Carcinogen list Yes

Reproductive toxicity: Not classified

Specific target organ toxicity – single exposure: Not classified

Specific target organ toxicity – repeated exposure: Not classified.
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Aspiration hazard : Not classified  
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.  
Chronic symptoms : May cause cancer.  

SECTION 12: Ecological information  

12.1. Toxicity  
Ecology - general : Toxic to aquatic life with long lasting effects. Toxic to aquatic life.  

Copper (7440-50-8)  

<table>
<thead>
<tr>
<th>Test Endpoint</th>
<th>LC50 Fish 1</th>
<th>EC50 Daphnia 1</th>
<th>LC50 Fish 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)</td>
<td>0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td>
<td>&lt; 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability  

Centerfire Primed Brass Shells  
Persistence and degradability : Not established.  

12.3. Bioaccumulative potential  

Centerfire Primed Brass Shells  
Bioaccumulative potential : Not established.  

12.4. Mobility in soil  

Centerfire Primed Brass Shells  
Ecology - soil : Not established.  

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 : UN0055 Cases, cartridge, empty with primer, 1.4, II  
UN-No.(DOT) : UN0055  
Proper Shipping Name (DOT) : Cases, cartridge, empty with primer  
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 Non Bulk (49 CFR 173.xxx) : 62  
DOT Packaging Bulk (49 CFR 173.xxx) : None  
DOT Special Provisions (49 CFR 172.102) : 50 - Cases, cartridge, empty with primer which are made of metallic or plastic casings and meeting the classification criteria of Division 1.4 are not regulated for domestic transportation.  
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 0055 CASES, CARTRIDGE, EMPTY, WITH PRIMER, 1.4S
UN-No. (IMDG) : 0055
Proper Shipping Name (IMDG) : CASES, CARTRIDGE, EMPTY, WITH PRIMER
Class (IMDG) : 1 - Explosives
Limited quantities (IMDG) : 5 kg

Air transport

Transport document description (IATA) : UN 0055 Cases, cartridge, empty, with primer, 1.4S
UN-No. (IATA) : 0055
Proper Shipping Name (IATA) : Cases, cartridge, empty, with primer
Class (IATA) : 1 - Explosive

SECTION 15: Regulatory information

15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Centerfire Primed Brass Shells</th>
<th>Physical hazard - Explosive</th>
<th>Health hazard - Carcinogenicity</th>
<th>Health hazard - Specific target organ toxicity (single or repeated exposure)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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>Copper (7440-50-8)</th>
<th>CAS-No. 7440-50-8</th>
<th>68 - 71%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc (7440-66-6)</td>
<td>CAS-No. 7440-66-6</td>
<td>28 - 31%</td>
</tr>
</tbody>
</table>

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 |

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)

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)

1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory
### Centerfire Primed Brass Shells

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<table>
<thead>
<tr>
<th>Copper (7440-50-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the AiCS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on IECSG (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
</tr>
<tr>
<td>Listed on INSC (Mexican National Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on CICR (Turkish Inventory and Control of Chemicals)</td>
</tr>
<tr>
<td>Listed on the TCSI (Taiwan Chemical Substance Inventory)</td>
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</tbody>
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<tr>
<td>Listed on the TCSI (Taiwan Chemical Substance Inventory)</td>
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<th>1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the AiCS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory</td>
</tr>
<tr>
<td>Listed on the Japanese ISHL (Industrial Safety and Health Law)</td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
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</table>

### 15.3. US State regulations

<table>
<thead>
<tr>
<th>Centerfire Primed Brass Shells</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. - California - Proposition 65 - Other information</strong></td>
</tr>
<tr>
<td>California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Copper (7440-50-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
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<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

| Revision date : 07/29/2019 |
| 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. |
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Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Inhalation:dust,mist)</th>
<th>Acute toxicity (inhalation:dust,mist) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity Category 1B</td>
</tr>
<tr>
<td>Expl. 1.4</td>
<td>Explosive Category 1.4</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity (repeated exposure) Category 2</td>
</tr>
<tr>
<td>Unst. Expl</td>
<td>Unstable explosives</td>
</tr>
<tr>
<td>H200</td>
<td>Unstable explosive</td>
</tr>
<tr>
<td>H204</td>
<td>Fire or projection hazard</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.