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

1.1 Product identifier

Product Name: Component Shotshell Projectiles
Synonyms: Lead Shot; Lead Slug; Steel Shot
SDS Number/Grade: SSLDCOMP

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s): Shotshell Handloading / Reloading

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
- Acute Toxicity Oral 4 - H302
- Carcinogenicity 2 - H351
- Reproductive Toxicity 1A - H360
- Specific Target Organ Toxicity Repeated Exposure 1 - H372
- Specific Target Organ Toxicity Repeated Exposure 2 - H373
- Hazardous to the aquatic environment Acute 1 - H400
- Hazardous to the aquatic environment Chronic 1 - H410

2.2 Label Elements

CLP

DANGER
Hazard statements

- H302 - Harmful if swallowed
- H351 - Suspected of causing cancer.
- H360 - May damage fertility or the unborn child.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- 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

Precautionary statements

Prevention
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust/fume.
- P264 - Wash thoroughly after handling.
- P273 - Avoid release to the environment.
- P281 - Use personal protective equipment as required.

Response
- P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
- P330 - Rinse mouth.
- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P314 - Get medical advice/attention if you feel unwell.
- P391 - Collect spillage.

Storage/Disposal
- 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
- May form combustible dust concentrations in air.
  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
- Acute Toxicity Oral 4
- Carcinogenicity 2
- Reproductive Toxicity 1A
- Specific Target Organ Toxicity Repeated Exposure 1
- Specific Target Organ Toxicity Repeated Exposure 2
- Combustible Dust
- Hazards Not Otherwise Classified - Health Hazards - Metal Fume Fever

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements
- Harmful if swallowed
- Suspected of causing cancer.
- May damage fertility or the unborn child.
- Causes damage to organs through prolonged or repeated exposure.
- May cause damage to organs through prolonged or repeated exposure.
May form combustible dust concentrations in air.

**Precautionary statements**

**Prevention** • Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.

**Storage/Disposal** • 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** • 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>Iron</td>
<td>CAS:7439-89-6 EC Number:231-096-4</td>
<td>98% TO 99%</td>
<td>Ingestion/Oral-Rat LD50 • 750 mg/kg</td>
<td><strong>EU CLP:</strong> Acute Tox. 4, H302; Aquatic Chronic 4, H413 <strong>OSHA HCS 2012:</strong> Acute Tox. 4 (Oral)</td>
<td>Steel Shot</td>
</tr>
<tr>
<td>Lead</td>
<td>CAS:7439-92-1 EC Number:231-100-4</td>
<td>94% TO 98%</td>
<td>NDA</td>
<td><strong>EU CLP:</strong> 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 <strong>OSHA HCS 2012:</strong> Comb. Dust; Carc. 2 (Inhalation); Repr. 1A (Oral, Inhalation); STOT RE 1 (CNS, GI / Oral,Inhalation)</td>
<td>0% (Steel Shot)</td>
</tr>
<tr>
<td>Antimony</td>
<td>CAS:7440-36-0 EINECS:231-146-5</td>
<td>0% TO 6%</td>
<td>Ingestion/Oral-Rat LD50 • 100 mg/kg</td>
<td><strong>EU CLP:</strong> Acute Tox. 3, H301; Repr. 2, H361d (Dermal, Inhalation); STOT RE 2, H373 (Lungs / Inhalation); Aquatic Chronic 2, H411 <strong>OSHA HCS 2012:</strong> Comb. Dust; Acute Tox. 3 (Oral); Repr. 2 (Dermal, Inhalation); STOT RE 2 (Lungs / Inhalation); HNOC Health - Causes Antimony spots</td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td>CAS:7440-66-6</td>
<td></td>
<td></td>
<td><strong>EU CLP:</strong></td>
<td></td>
</tr>
</tbody>
</table>
### 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**
  - Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

- **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.
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. Use normal clean up procedures. Contain spill and monitor for excessive dust accumulation. Avoid unnecessary personnel and equipment traffic in the spill area.

6.2 Environmental precautions
- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Avoid generating dust.
- Use clean nonsparking tools to collect material.
- Carefully shovel or sweep up spilled material and place in suitable container.
- Dust deposits should not be allowed to accumulate on surfaces, as these may form
  an explosive mixture if they are released into the atmosphere in sufficient
  concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with
  compressed air).

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
- Do not use in areas without adequate ventilation. Handle with care. Do not strike or
  crush the rounds (cartridges). Minimize dust generation and accumulation. Routine
  housekeeping should be instituted to ensure that dusts do not accumulate on
  surfaces. Dry powders can build static electricity charges when subjected to the
  friction of transfer and mixing operations. Provide adequate precautions, such as
  electrical grounding and bonding, or inert atmospheres. Use personal protective
  equipment as required. Avoid breathing dust or fume. 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>Component</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Result</td>
</tr>
<tr>
<td>Antimony</td>
<td>TWAs</td>
</tr>
<tr>
<td>Arsenic (7440-38-2)</td>
<td>TWAs</td>
</tr>
<tr>
<td></td>
<td>Ceilings</td>
</tr>
</tbody>
</table>
### Environmental Exposure

#### 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

---

**Zinc (7440-66-6)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limits</th>
<th>MAKs</th>
<th>TWAs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceilings</td>
<td>Not established</td>
<td>0.4 mg/m3 Peak (respirable fraction); 4 mg/m3 Peak (inhalable fraction)</td>
<td>Not established</td>
</tr>
<tr>
<td>MAKs</td>
<td>Not established</td>
<td>0.1 mg/m3 TWA MAK (respirable fraction); 2 mg/m3 TWA MAK (inhalable fraction)</td>
<td>Not established</td>
</tr>
<tr>
<td>Lead</td>
<td>TWAs</td>
<td>0.05 mg/m3 TWA</td>
<td>Not established</td>
</tr>
</tbody>
</table>

---

**Exposure Control Notations**

**ACGIH**

- Lead (7439-92-1): **Carcinogens**: (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)
- Lead as Lead, inorganic compounds: **Carcinogens**: (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)
- Arsenic (7440-38-2): **Carcinogens**: (A1 - Confirmed Human Carcinogen)

**Germany TRGS**

- Lead (7439-92-1): **Developmental Toxins**: (Category 1 (bioavailable, metal)) | **Reproductive Toxins**: (Category 3 (bioavailable, metal))
- Lead as Lead, inorganic compounds: **Carcinogens**: (Category 2 (considered to be carcinogenic for man))
- Lead as Lead, inorganic compounds: **Carcinogens**: (Category 2 (considered to be carcinogenic for man, as Pb except lead arsenate and lead chromate))
- Antimony (7440-36-0): **Carcinogens**: (Category 2 (considered to be carcinogenic for man))
- Arsenic (7440-38-2): **Carcinogens**: (Category 1 (causes cancer in man))

**Exposure Limits Supplemental**

**ACGIH**

- Lead (7439-92-1): **BEIs**: (30 µg/100 ml Medium; blood Time: not critical Parameter: Lead (Note: Women of child bearing potential, whose blood Pb exceeds 10 µg/dL, are at risk of delivering a child with a blood Pb over the current Centers for Disease Control guideline of 10 µg/dL. If the blood Pb of such children remains elevated, they may be at increased risk of cognitive deficits. The blood Pb of these children should be closely monitored and appropriate steps should be taken to minimize the child's exposure to environmental lead.)) | **TLV Basis - Critical Effects**: (CNS and PNS impairment; hematologic effects)
- Lead as Lead, inorganic compounds: **BEIs**: (30 µg/100 ml Medium; blood Time: not critical Parameter: Lead (Note: Women of child bearing potential, whose blood Pb exceeds 10 µg/dL, are at risk of delivering a child with a blood Pb over the current Centers for Disease Control guideline of 10 µg/dL. If the blood Pb of such children remains elevated, they may be at increased risk of cognitive deficits. The blood Pb of these children should be closely monitored and appropriate steps should be taken to minimize the child's exposure to environmental lead.)) | **TLV Basis - Critical Effects**: (CNS and PNS impairment; hematologic effects)
- Antimony (7440-36-0): **TLV Basis - Critical Effects**: (skin and upper respiratory tract irritation)
- Antimony as Antimony compounds: **TLV Basis - Critical Effects**: (skin and upper respiratory tract irritation)
- Arsenic (7440-38-2): **BEIs**: (35 µg As/L Medium; urine Time: end of workweek Parameter: Inorganic arsenic plus methylated metabolites (background)) | **TLV Basis - Critical Effects**: (lun cancer)

### 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

OSHA = Occupational Safety and Health Administration

BEI = Biological Exposure Indices

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

NIOSH = National Institute of Occupational Safety and Health

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance/Description</td>
<td>Various colored solid with no odor.</td>
</tr>
<tr>
<td>Color</td>
<td>Various</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>pH</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>Water Solubility</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Oxidizing Properties:</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Volatility</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Flammability</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Data lacking</td>
</tr>
<tr>
<td>LEL</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Environmental</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

9.2 Other Information

- No additional physical and chemical parameters noted.

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
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

<table>
<thead>
<tr>
<th>Components</th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc (&lt; 2%)</td>
<td>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: Inhalation-Human TCLo • 0.011 mg/m³ 26 Week(s)-Intermittent; Brain and Coverings:Other degenerative changes; Inhalation-Man TCLo • 0.03 mg/m³ 5 Year(s)-Intermittent; Endocrine:Androgenic; Inhalation-Man TCLo • 0.109 mg/m³ 5 Year(s)-Intermittent; Reproductive Effects:Paternal Effects:Spermatogenesis; 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:Fetotoxicity (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:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Blood and lymphatic system</td>
</tr>
<tr>
<td>Lead (94% TO 98%)</td>
<td>Antimony (0% TO 6%)</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>7439-92-1</td>
</tr>
<tr>
<td>7439-89-6</td>
<td>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</td>
</tr>
</tbody>
</table>

GHS Properties

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory sensitization</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Data lacking</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Data lacking</td>
</tr>
</tbody>
</table>
### 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)**
- Repeated and prolonged exposure to dust may cause lung effects including pneumoconiosis.

#### 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)**
- Harmful if swallowed. Ingestion may cause severe headache, nausea, vomiting, abdominal pain, fatigue, diarrhea, trembling, ringing in ear and salivation.

**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: 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. Repeated and prolonged exposure to Arsenic may have effects on the mucous membranes, skin, peripheral nervous system, liver and bone marrow, resulting in pigmentation disorders, hyperkeratosis, perforation of nasal septum, neuropathy, liver impairment, anaemia.

#### Carcinogenic Effects
- Repeated and prolonged exposure may cause cancer.

---

**Carcinogenic Effects**

<table>
<thead>
<tr>
<th>CAS</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Arsenic
- CAS: 7440-38-2
- Group 1-Carcinogenic
- Known Human Carcinogen

### Lead
- CAS: 7439-92-1
- Group 2A-Probable Carcinogen
- Reasonably Anticipated to be Human Carcinogen

#### 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.

#### 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 Cyprinodon variegatus (Sheepshead Minnow) 6.2 mg/L Comments: Antimony (7440-36-0) 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) Aquatic Toxicity-Crustacea: 7 Day(s) NOEC Aquatic Sowbug, Isopod (Idotea balthica) 0.5 mg/L Comments: Iron (7439-89-6) 7 Day(s) NOEC Daphnia magna (Water Flea) 3.9 mg/L Comments: Antimony (7440-36-0) 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)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component Shotshell Projectiles</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

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

**Section 14 - Transport Information**

<table>
<thead>
<tr>
<th></th>
<th>14.1 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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<tbody>
<tr>
<td>DOT</td>
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<td>NDA</td>
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<td>TDG</td>
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<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>State Right To Know</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MA</td>
<td>NJ</td>
</tr>
<tr>
<td>Antimony</td>
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<td>Yes</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>Yes</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>No</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Yes</td>
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<table>
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<tr>
<th>Component</th>
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<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
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<td>Antimony</td>
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<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Europe**

**Other**
- EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification
  - Lead
  - Antimony
  - Arsenic
  - Zinc
  - Iron

7439-92-1 Not Listed
7440-36-0 Not Listed
7440-38-2 T; R23/25 N; R50-53
7440-66-6 Not Listed
7439-89-6 Not Listed
### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Limit</th>
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</thead>
<tbody>
<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>
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### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

<table>
<thead>
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<th>Substance</th>
<th>CAS Number</th>
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<tbody>
<tr>
<td>Lead</td>
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</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iron</td>
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<td>Not Listed</td>
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</table>

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

<table>
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<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
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</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>
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</table>

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

<table>
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<tr>
<td>Antimony</td>
<td>7440-36-0</td>
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<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>S:(1/2)-20/21-28-45-60-61</td>
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<tr>
<td>Zinc</td>
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<td>Not Listed</td>
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<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
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</table>

### United States

#### Labor

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<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>
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<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>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>30 µg/m³ Action Level (See 29 CFR 1910.1025); 50 µg/m³ TWA (See 29 CFR 1910.1025)</td>
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<tr>
<td>Antimony</td>
<td>7440-36-0</td>
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<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
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</tr>
<tr>
<td>Zinc</td>
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<tr>
<td>Iron</td>
<td>7439-89-6</td>
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#### Environment

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
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<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
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<tr>
<td>Zinc</td>
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### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Final RQ</th>
<th>Reporting Requirements</th>
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</thead>
<tbody>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>

- **Lead**
  - CAS Number: 7439-92-1
  - Final RQ: 10 lb
  - Reporting Requirements: No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm; 4.54 kg
- **Antimony**
  - CAS Number: 7440-36-0
  - Final RQ: 5000 lb
  - Reporting Requirements: No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm; 2270 kg
- **Arsenic**
  - CAS Number: 7440-38-2
  - Final RQ: 1 lb
  - Reporting Requirements: No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm; 0.454 kg
- **Zinc**
  - CAS Number: 7440-66-6
  - Final RQ: 454 kg
  - Reporting Requirements: No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm; 1000 lb

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Final RQ</th>
<th>Reporting Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
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<tr>
<td>Antimony</td>
<td>7440-36-0</td>
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<td></td>
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<tr>
<td>Arsenic</td>
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<tr>
<td>Zinc</td>
<td>7440-66-6</td>
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<tr>
<td>Iron</td>
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### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Final RQ</th>
<th>Reporting Requirements</th>
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<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>
• Arsenic  7440-38-2  Not Listed
• Zinc  7440-66-6  Not Listed
• Iron  7439-89-6  Not Listed

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

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
• Lead  7439-92-1  0.1 % Supplier notification limit; 0.1 % de minimis concentration (when contained in stainless steel, brass, or bronze)
• Antimony  7440-36-0  1.0 % de minimis concentration
• Arsenic  7440-38-2  0.1 % de minimis concentration
• Zinc  7440-66-6  1.0 % de minimis concentration (dust or fume only)
• Iron  7439-89-6  Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
• Lead  7439-92-1  100 lb RT (this lower threshold does not apply to lead when it is contained in stainless steel, brass or bronze alloy)
• Antimony  7440-36-0  Not Listed
• Arsenic  7440-38-2  Not Listed
• Zinc  7440-66-6  Not Listed
• Iron  7439-89-6  Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII
• Lead  7439-92-1  Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K069, K086, K100, K176
• Antimony  7440-36-0  Included in waste streams: F039, K021, K161, K177
• Arsenic  7440-38-2  Included in waste streams: F032, F034, F035, F039, K031, K060, K084, K101, K102, K161, K171, K172, K176
• Zinc  7440-66-6  Not Listed
• Iron  7439-89-6  Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring
• Lead  7439-92-1  (total)
• Antimony  7440-36-0  (total)
• Arsenic  7440-38-2  (total)
• Zinc  7440-66-6  (total)
• Iron  7439-89-6  Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic

- Lead 7439-92-1 5.0 mg/L regulatory level
- Antimony 7440-36-0 Not Listed
- Arsenic 7440-38-2 5.0 mg/L regulatory level
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed

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

- Lead 7439-92-1 hazardous constituent - no waste number
- Antimony 7440-36-0 hazardous constituent - no waste number
- Arsenic 7440-38-2 hazardous constituent - no waste number
- Zinc 7440-66-6 Not Listed
- Iron 7439-89-6 Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

- Lead 7439-92-1 (total)
- Antimony 7440-36-0 (total)
- Arsenic 7440-38-2 (total)
- Zinc 7440-66-6 (total)
- Iron 7439-89-6 Not Listed

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

- Lead 7439-92-1 0.69 mg/L (wastewater); 0.75 mg/L TCLP (nonwastewater)
- Antimony 7440-36-0 1.9 mg/L (wastewater); 1.15 mg/L TCLP (nonwastewater)
- Arsenic 7440-38-2 1.4 mg/L (wastewater); 5.0 mg/L TCLP (nonwastewater)
- Zinc 7440-66-6 2.61 mg/L (wastewater); 4.3 mg/L TCLP (nonwastewater)
- Iron 7439-89-6 Not Listed

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

- Lead 7439-92-1 (total)
- Antimony 7440-36-0 (total)
- Arsenic 7440-38-2 (total)
- Zinc 7440-66-6 (total)
- Iron 7439-89-6 Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

- 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

**United States - California**

**Environment**

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

- Lead 7439-92-1 carcinogen, initial date 10/1/92
<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Listed Status</th>
</tr>
</thead>
<tbody>
<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>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Developmental Toxicity, Initial Date 2/27/87</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td></td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
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</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>Not Listed</td>
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<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>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Maximum Allowable Dose Levels (MADL)</th>
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</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>0.5 µg/day MADL</td>
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<td>Antimony</td>
<td>7440-36-0</td>
<td>Not Listed</td>
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<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>
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</tbody>
</table>

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

<table>
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<th>CAS Number</th>
<th>No Significant Risk Levels (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>15 µg/day NSRL (oral)</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>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>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Reproductive Toxicity, Initial Date 2/27/87</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td></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>
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Reproductive Toxicity, Initial Date 2/27/87</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td></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>
</tbody>
</table>

**United States - Pennsylvania**

**Labor**

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

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Listed Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td></td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td></td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>(inorganic)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
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</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

- 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

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)

- H301 - Toxic if swallowed
- H331 - Toxic if inhaled
- H361d - Suspected of damaging the unborn child.
- H411 - Toxic to aquatic life with long lasting effects
- H413 - May cause long lasting harmful effects to aquatic life

Revision Date
- 25/November/2015

Preparation Date
- 01/October/2001

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