Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 08/24/2018



Version: 2.3

# **SECTION 1: IDENTIFICATION**

Product Identifier
Product Form: Article

**Product Name:** Ballisticlean™ Centerfire Rifle & Pistol Ammunition (all calibers)

Synonyms: BC9NT3, BC40P1, BC45CT1, BC223NT5, SP223, BC223NT5A, BC556NT1, XM556NT1, all other Lead Free Rifle/Pistol

Ammunition part numbers. Previous SDS# F3004, F3005, F3006, F3007, F3008, F3010

**Intended Use of the Product** 

Small arms ammunition, Sporting Ammunition

Name, Address, and Telephone of the Responsible Party

Company

Federal Cartridge Company

900 Ehlen Drive

Anoka, Minnesota 55303

T 1-800-635-7656

dangerous.goods@vistaoutdoor.com

**Emergency Telephone Number** 

Emergency number : 1-800-424-9300 (Inside US), 01-703-527-3887 (Outside US) - (CHEMTREC, Day or Night)

(Transportation Incidents Only)

# **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the Substance or Mixture

Classification (GHS-US)

Physical Hazards: Explosives Division 1.4S
Health Hazards: Acute Toxicity (inhalation) Category 4
Skin Sensitization Category 1A

Specific Target Organ Toxicity, Category 2

Repeat Exposure

<u>Label Elements</u>

**GHS-US Labeling** 

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) : WARNING

Hazard Statements (GHS-US) : Fire or projection hazard. Harmful if inhaled. May cause an allergic skin reaction. May cause

damage to respiratory system through prolonged or repeated exposure.

**Precautionary Statements (GHS-US)** Prevention:

Do not handle until all safety precautions have been read and understood. Keep away from heat. No smoking. Do not subject to shock. Wear eye protection. Do not breath dust/fume.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-

ventilated area. Wash hands thoroughly after handling.

Response:

In case of fire: Evacuate area. Fight fire with normal precautions from a reasonable distance.

If exposed, concerned or you feel unwell: Call a doctor or get medical attention.

Storage: Store in accordance with applicable fire codes. Keep only in original packaging.

Disposal: Dispose of ammunition in accordance with local regulations.

Supplemental information: The hazardous components of this product are encased and are

not biologically available. Therefore, some health hazards do not apply to the overall

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product.

Unknown Acute Toxicity (GHS-US) Not available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture

Name	Product identifier	% (w/w)
Tin	(CAS No) 7440-31-5	0 – 60
Copper	(CAS No) 7440-50-8	30 – 55
Nickel**	(CAS No) 7440-02-0	0 - 1
Zinc	(CAS No) 7440-66-6	1 - 25
Nitrocellulose*	(CAS No) 9004-70-0	1 - 5
Nitroglycerin*	(CAS No) 55-63-0	0 - 5
Diazodinitrophenol*	(CAS No) 4682-03-5	<1
Barium	(CAS No) 7440-39-3	< 0.1

<sup>\*</sup>The hazardous components of this product are encased within a shell and are unlikely to be released under normal handling conditions. Therefore, the health and environmental hazards associated with nitrocellulose and nitroglycerin do not apply to the product overall.

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where neccesary due to varying composition.

Full text of H-phrases: see section 16

# **SECTION 4: FIRST AID MEASURES**

# **Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

Skin Contact: Wash with plenty of soap and water. If skin irritation or rash occurs: Seek medical advice.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Rinse mouth. Do NOT induce vomiting.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Projectiles from fired ammunition can cause puncture wounds.

Inhalation: Not expected to be a primary route of exposure.
Skin Contact: None expected under normal conditions of use.
Eye Contact: None expected under normal conditions of use.
Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: None expected under normal conditions of use.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

# **SECTION 5: FIRE-FIGHTING MEASURES**

# **Extinguishing Media**

Suitable Extinguishing Media: Straight water stream; Water fog. Class A foam.

Unsuitable Extinguishing Media: None

#### **Special Hazards Arising From the Substance or Mixture**

Fire Hazard: Not considered flammable but may burn at high temperatures.

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<sup>\*\*</sup>It is suspected that nickel causes cancer and damage to the respiratory tract via inhalation. Because this product is in massive form, it is unlikely that respiration is a potential route of exposure. Therefore, the hazards usually associated with nickel do not apply to this product.

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**Explosion Hazard:** Explosive. The effects are largely confined to the package and no projection of fragments of appreciable size or range is to be expected. An external fire shall not cause virtually instantaneous explosion of almost the entire contents of the package. Do not expose to heat, or ignition sources as this could cause an explosion. If heated above 200 °C (392 °F) may explode.

**Reactivity:** Hazardous reactions are unlikely to occur under normal circumstances.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Do not breathe fumes from fires or vapors from decomposition. Exercise caution when fighting any chemical fire. If product is unconfined, there is a greater risk for injury from projectiles.

Firefighting Instructions: In case of fire: Evacuate area. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Self-contained breathing apparatus (SCBA) and full structural protective clothing should be worn for any fire or exposure to heat. This includes, but is not limited to, protective coat, pants, boots, firefighting gloves, SCBA with facepiece and helmet, protective hood and eye protection. (NFPA 1971)

**Hazardous Combustion Products**: Oxides of Barium, Lead, Antimony, Aluminum, Magnesium, Nitrogen, Carbon, and Sulfur. **Specific Methods**:

Perform a risk assessment before engaging in offensive firefighting operations. Unless life safety risk or significant risk of property loss is present, consider taking defensive posture, protecting exposures and maintaining safe distance until material is consumed. For further information see the video "Ammunition and the Fire Fighter" by the Sporting Arms and Ammunition Manufacturers' Institute (SAAMI).

Evacuate personnel to a safe area according to pre-determined public protection zones. Refer to pre-incident response and structural plans to determine potential for involvement of other hazardous materials. Direct water streams at product to reduce projectile hazard from exploding cartridges. After the fire is controlled, heated products can still re-ignite and project pieces of metal posing risk to fire-fighters. Full PPE including respiratory protection should be worn during salvage, overhaul and fire investigation. Do not disturb the involved area until the fire is completely extinguished and the product and packaging are allowed to cool down to ambient temperatures.

#### **Reference to Other Sections**

Refer to section 9 for flammability properties.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all unnecessary exposure.

**For Non-Emergency Personnel** 

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel** 

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Eliminate ignition sources.

# **Environmental Precautions**

Avoid release to the environment.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** Dry sweeping can contain spilled product. Use only non-sparking tools. **Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

**Reference to Other Sections** 

See heading 8, Exposure Controls and Personal Protection.

#### **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Precautions for Safe Handling:** Projectiles from fired ammunition can cause puncture wounds. Avoid striking the primer of unchambered cartridges. Remove ammunition from service if any of the following conditions have occurred: corrosion, physical damage, exposure to oil or spray type lubricants.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Store as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR Part 555. Comply with applicable regulations.

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**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep/Store away from heat sources, ignition sources, and incompatible materials. Keep container closed when not in use.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

Special Rules on Packaging: Keep only in original container.

Small arms ammunition.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control Parameters**

Copper (7440-50-8)

Mexico         OEL TEL (mg/m²)         2 mg/m³           Mexico         OEL STEL (mg/m²)         2 mg/m³           USA ACGIH         ACGIH TWA (mg/m³)         0.2 mg/m³           USA NIOSH         OSHA PEL (TWA) (mg/m²)         0.1 mg/m³           USA NIOSH         NIOSH BEL (TWA) (mg/m²)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         1.00 mg/m³           JABORIA         OEL TWA (mg/m³)         1.00 mg/m³           Alberta         OEL TWA (mg/m³)         0.2 mg/m³           Manitoba         OEL TWA (mg/m³)         0.2 mg/m³           Newfoundland & Labrador         OEL TWA (mg/m³)         0.2 mg/m³           Nova Scotia         OEL TWA (mg/m³)         0.2 mg/m³           Nunavut         OEL TWA (mg/m³)         0.2 mg/m³           Nunavut         OEL TWA (mg/m³)         0.2 mg/m³           Northwest Territories         OEL TWA (mg/m³)         1 mg/m³           Northwest Territories         OEL TWA (mg/m³)         1 mg/m³           Northwest Territories         OEL TWA (mg/m³)         1 mg/m³           Oritorio         OEL TWA (mg/m³)         1 mg/m³           VEMP (mg/m³)         1 mg/m³         0 mg/m³           Saskatchewan         OEL TWA (mg/m³)         0.2 mg/m³	Copper (7440 50 0)		
USA OSHA	Mexico	OEL TWA (mg/m³)	1 mg/m³
USA NIOSH	Mexico	OEL STEL (mg/m³)	2 mg/m³
USA IDLH	USA ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³
USI DLH	USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³
Alberta         OEL TWA (mg/m³)         1 mg/m³           British Columbia         OEL TWA (mg/m³)         0.2 mg/m³           Manitoba         OEL TWA (mg/m³)         0.2 mg/m³           New Brunswick         OEL TWA (mg/m³)         1 mg/m³           New Groundland & Labrador         OEL TWA (mg/m³)         0.2 mg/m³           Nova Scotia         OEL TWA (mg/m³)         0.2 mg/m³           Nunavut         OEL STEL (mg/m³)         2 mg/m³           Northwest Territories         OEL STEL (mg/m³)         2 mg/m³           Northwest Territories         OEL STEL (mg/m³)         1 mg/m³           Ontario         OEL TWA (mg/m³)         1 mg/m³           Ontario         OEL TWA (mg/m³)         1 mg/m³           Orice Edward Island         OEL TWA (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (pmm)         0.05 ppm	USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.1 mg/m³
British Columbia   OEL TWA (mg/m³)   0.2 mg/m³   Manitoba   OEL TWA (mg/m²)   0.2 mg/m³   New Brunswick   OEL TWA (mg/m²)   0.2 mg/m³   New Brunswick   OEL TWA (mg/m²)   1 mg/m³   0.2 mg/m³   New Goundland & Labrador   OEL TWA (mg/m²)   0.2 mg/m³   0.2 mg/	USA IDLH	US IDLH (mg/m³)	100 mg/m <sup>3</sup>
Manitoba         OEL TWA (mg/m³)         0.2 mg/m³           New Brunswick         OEL TWA (mg/m²)         1 mg/m³           Newfoundland & Labrador         OEL TWA (mg/m²)         0.2 mg/m³           Nova Scotia         OEL TWA (mg/m²)         0.2 mg/m³           Nunavut         OEL STEL (mg/m³)         2 mg/m³           Nunavut         OEL TWA (mg/m³)         1 mg/m³           Northwest Territories         OEL TWA (mg/m³)         1 mg/m³           Orthwest         Vermp (mg/m³)         1 mg/m³         1 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³         2 mg/m³           Yukon         OEL STEL (mg/m³)         1 mg/m³         1	Alberta	OEL TWA (mg/m³)	1 mg/m³
New Brunswick         OEL TWA (mg/m³)         1 mg/m³           Newfoundland & Labrador         OEL TWA (mg/m²)         0.2 mg/m³           Nova Scotia         OEL TWA (mg/m³)         0.2 mg/m³           Nunavut         OEL STEL (mg/m³)         2 mg/m³           Nunavut         OEL STEL (mg/m³)         1 mg/m³           Northwest Territories         OEL STEL (mg/m³)         2 mg/m³           Northwest Territories         OEL TWA (mg/m³)         1 mg/m³           Ontario         OEL TWA (mg/m³)         1 mg/m³           Ontario         OEL TWA (mg/m³)         0.2 mg/m³           Orice Edward Island         OEL TWA (mg/m³)         0.2 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL STEL (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Nexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (pmm)         0.05	British Columbia	OEL TWA (mg/m³)	0.2 mg/m <sup>3</sup>
New Brunswick         OEL TWA (mg/m³)         1 mg/m³           Newfoundland & Labrador         OEL TWA (mg/m²)         0.2 mg/m³           Nova Scotia         OEL TWA (mg/m³)         0.2 mg/m³           Nunavut         OEL STEL (mg/m³)         2 mg/m³           Nunavut         OEL STEL (mg/m³)         1 mg/m³           Northwest Territories         OEL STEL (mg/m³)         2 mg/m³           Northwest Territories         OEL TWA (mg/m³)         1 mg/m³           Ontario         OEL TWA (mg/m³)         1 mg/m³           Ontario         OEL TWA (mg/m³)         0.2 mg/m³           Orice Edward Island         OEL TWA (mg/m³)         0.2 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL STEL (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Nexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (pmm)         0.05	Manitoba	OEL TWA (mg/m³)	0.2 mg/m³
Nova Scotia	New Brunswick	OEL TWA (mg/m³)	1 mg/m³
Nova Scotia	Newfoundland & Labrador	OEL TWA (mg/m³)	0.2 mg/m³
Nunavut         OEL TWA (mg/m³)         1 mg/m³           Northwest Territories         OEL STEL (mg/m²)         2 mg/m³           Northwest Territories         OEL TWA (mg/m²)         1 mg/m³           Ontario         OEL TWA (mg/m²)         1 mg/m³           Prince Edward Island         OEL TWA (mg/m³)         0.2 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Nexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (pgm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         75 mg/m	Nova Scotia		
Nunavut         OEL TWA (mg/m³)         1 mg/m³           Northwest Territories         OEL STEL (mg/m²)         2 mg/m³           Northwest Territories         OEL TWA (mg/m²)         1 mg/m³           Ontario         OEL TWA (mg/m²)         1 mg/m³           Prince Edward Island         OEL TWA (mg/m³)         0.2 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Nexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (mg/m³)         0.05 ppm           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA OSHA         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.5 m	Nunavut	OEL STEL (mg/m³)	2 mg/m³
Northwest Territories         OEL STEL (mg/m³)         2 mg/m³           Northwest Territories         OEL TWA (mg/m³)         1 mg/m³           Ontario         OEL TWA (mg/m³)         1 mg/m³           Prince Edward Island         OEL TWA (mg/m³)         0.2 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL STEL (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Nexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         0.2 ppm           USA IDLH         US IDLH (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         0.5 mg/m³ </td <td>Nunavut</td> <td>OEL TWA (mg/m³)</td> <td></td>	Nunavut	OEL TWA (mg/m³)	
Northwest Territories         OEL TWA (mg/m³)         1 mg/m³           Ontario         OEL TWA (mg/m³)         1 mg/m³           Prince Edward Island         OEL TWA (mg/m³)         0.2 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (pmm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm		, ,	
Ontario         OEL TWA (mg/m³)         1 mg/m³           Prince Edward Island         OEL TWA (mg/m³)         0.2 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0		,,	
Prince Edward Island         OEL TWA (mg/m³)         0.2 mg/m³           Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL TWA (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA OSHA         OEL STEL (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³) <td>Ontario</td> <td>OEL TWA (mg/m³)</td> <td></td>	Ontario	OEL TWA (mg/m³)	
Québec         VEMP (mg/m³)         1 mg/m³           Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Nitroglycerin (55-63-0)           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Mex Brunswick         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (ppm)         0.05 ppm           New Grundland & Labrador <td>Prince Edward Island</td> <td>· - ·</td> <td></td>	Prince Edward Island	· - ·	
Saskatchewan         OEL STEL (mg/m³)         3 mg/m³           Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Nexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm	Québec	VEMP (mg/m³)	
Saskatchewan         OEL TWA (mg/m³)         1 mg/m³           Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           New Goundland & Labrador         OEL TWA (ppm)         0.05 ppm			
Yukon         OEL STEL (mg/m³)         2 mg/m³           Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)           Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm			
Yukon         OEL TWA (mg/m³)         1 mg/m³           Nitroglycerin (55-63-0)         Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.05 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           New Goundland & Labrador         OEL TWA (ppm)         0.05 ppm		, . ,	
Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm	Yukon	OEL TWA (mg/m³)	
Mexico         OEL TWA (mg/m³)         0.5 mg/m³           Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm	Nitroglycerin (55-63-0)	· - ·	
Mexico         OEL TWA (ppm)         0.05 ppm           Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm		OEL TWA (mg/m³)	0.5 mg/m³
Mexico         OEL STEL (mg/m³)         1 mg/m³           Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm		, , ,	
Mexico         OEL STEL (ppm)         0.1 ppm           USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm			
USA ACGIH         ACGIH TWA (ppm)         0.05 ppm           USA OSHA         OSHA PEL (Ceiling) (mg/m³)         2 mg/m³           USA OSHA         OSHA PEL (Ceiling) (ppm)         0.2 ppm           USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm		,,	
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USA OSHA  OSHA PEL (Ceiling) (ppm)  USA NIOSH  NIOSH REL (STEL) (mg/m³)  USA IDLH  US IDLH (mg/m³)  Alberta  OEL TWA (mg/m³)  OEL TWA (ppm)  O.05 ppm  Manitoba  OEL TWA (ppm)  New Brunswick  OEL TWA (ppm)  OEL TWA (ppm)  O.05 ppm			
USA NIOSH         NIOSH REL (STEL) (mg/m³)         0.1 mg/m³           USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm			
USA IDLH         US IDLH (mg/m³)         75 mg/m³           Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm			
Alberta         OEL TWA (mg/m³)         0.5 mg/m³           Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm			
Alberta         OEL TWA (ppm)         0.05 ppm           British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm		, ,	
British Columbia         OEL TWA (ppm)         0.05 ppm           Manitoba         OEL TWA (ppm)         0.05 ppm           New Brunswick         OEL TWA (mg/m³)         0.46 mg/m³           New Brunswick         OEL TWA (ppm)         0.05 ppm           Newfoundland & Labrador         OEL TWA (ppm)         0.05 ppm			
ManitobaOEL TWA (ppm)0.05 ppmNew BrunswickOEL TWA (mg/m³)0.46 mg/m³New BrunswickOEL TWA (ppm)0.05 ppmNewfoundland & LabradorOEL TWA (ppm)0.05 ppm	British Columbia		
New BrunswickOEL TWA (mg/m³)0.46 mg/m³New BrunswickOEL TWA (ppm)0.05 ppmNewfoundland & LabradorOEL TWA (ppm)0.05 ppm			
New Brunswick     OEL TWA (ppm)     0.05 ppm       Newfoundland & Labrador     OEL TWA (ppm)     0.05 ppm		** ** **	
Newfoundland & Labrador OEL TWA (ppm) 0.05 ppm			
		XI 1 /	
Nova Scotia OEL TWA (ppm) 0.05 ppm	Nova Scotia	OEL TWA (ppm)	0.05 ppm
Nunavut OEL STEL (mg/m³) 0.46 mg/m³			

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Nunavut	OEL STEL (ppm)	0.05 ppm
Nunavut	OEL TWA (mg/m³)	1.9 mg/m³
Nunavut	OEL TWA (ppm)	0.02 ppm
Northwest Territories	OEL STEL (mg/m³)	0.46 mg/m³
Northwest Territories	OEL STEL (ppm)	0.05 ppm
Northwest Territories	OEL TWA (mg/m³)	1.9 mg/m³
Northwest Territories	OEL TWA (ppm)	0.02 ppm
Ontario	OEL TWA (ppm)	0.05 ppm
Prince Edward Island	OEL TWA (ppm)	0.05 ppm
Québec	PLAFOND (mg/m³)	1.86 mg/m³
Québec	PLAFOND (ppm)	0.2 ppm
Saskatchewan	OEL STEL (ppm)	0.15 ppm
Saskatchewan	OEL TWA (ppm)	0.05 ppm
Yukon	OEL STEL (mg/m³)	2 mg/m³
Yukon	OEL STEL (ppm)	0.2 ppm
Yukon	OEL TWA (mg/m³)	2 mg/m³
Yukon	OEL TWA (ppm)	0.2 ppm

### **Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Safety glasses.





Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

**Eye Protection:** In case of projectile hazard: Safety glasses. Face shield. **Skin and Body Protection:** Wash contaminated clothing before reuse.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use. If noise levels exceed OSHA limits while firing this product, use hearing protection in accordance with OSHA's Hearing Conservation Standard, 29 CFR 1910.95.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES Information on Basic Physical and Chemical Properties

		<del></del>
Physical State	:	Solid
Appearance	:	Not available
Odor	:	Not available
Odor Threshold	:	Not available
рН	:	Not available
<b>Evaporation Rate</b>	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
<b>Boiling Point</b>	:	Not available
Flash Point	:	Not available
<b>Auto-ignition Temperature</b>	:	Not available
<b>Decomposition Temperatur</b>	re :	Not available
Flammability (solid, gas)	:	Not available

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**Lower Flammable Limit** Not available **Upper Flammable Limit** Not available **Vapor Pressure** Not available Relative Vapor Density at 20 °C Not available **Relative Density** Not available **Specific Gravity** Not available Solubility Not available Partition coefficient: n-octanol/water Not available Viscosity Not available

**Explosive properties** Explosive; fire, or projection hazard Explosion Data – Sensitivity to Mechanical Impact Sensitive to mechanical impact

Explosion Data - Sensitivity to Static Discharge Insensitive

# SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions are unlikely to occur under normal circumstances.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7). However, because of the design of ammunition and its components, partial detonation upon impact or intense heat may occur. Mass detonation will not occur.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Metal oxides.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

# **Information on Toxicological Effects - Product**

Acute Toxicity: Not classified

LD50 and LC50 Data:

Small Arms Ammunition – Ballisticlean Rifle & Pistol Ammunition	
ATE US (oral)	100.00 mg/kg body weight
ATE US (dermal)	300.00 mg/kg body weight
ATE US (dust, mist)	0.50 mg/l/4h

Skin Corrosion/Irritation: Not classified Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

**Carcinogenicity:** Reasonably anticipated to be human carcinogen. Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Not expected to be a primary route of exposure.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: None expected under normal conditions of use. Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Nitrocellulose (9004-70-0)	
LD50 Oral Rat	5000 mg/kg

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Nitroglycerin (55-63-0)	
LD50 Oral Rat	105 mg/kg
LD50 Dermal Rabbit	> 280 mg/kg
ATE (dust, mist)	0.05 mg/l/4h

# **SECTION 12: ECOLOGICAL INFORMATION**

#### **Toxicity** Not classified

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)
LC 50 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 [Static])	

# **Persistence and Degradability**

Copper (7440-50-8)	
Persistence and Degradability	Not readily biodegradable.

#### Bioaccumulative Potential Not available

Mobility in Soil Not available

#### **Other Adverse Effects**

**Other Information:** Avoid release to the environment.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Destroy and dispose of in accordance with applicable local, state, provincial, territorial, federal and international regulations. Comply with regulations as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR part 555.

### **SECTION 14: TRANSPORT INFORMATION**

# 14.1 In Accordance with DOT

Proper Shipping Name : CARTRIDGES, SMALL ARMS

Hazard Class : 1.4S Identification Number : UN0012 Label Codes : 1.4S



# 14.1.1 Domestic Ground packaged per 49CFR173.63

Proper Shipping Name : None

Hazard Class : Limited Quantity

Identification Number: NoneLabel Codes: NonePacking Group: None



#### 14.2 In Accordance with IMDG

**Proper Shipping Name** : CARTRIDGES FOR WEAPONS, INERT PROJECTILE

Hazard Class : 1.4S
Identification Number : UN0012
Label Codes : 1.4S
EmS-No. (Fire) : F-B
EmS-No. (Spillage) : S-X



# 14.3 In Accordance with IATA

**Proper Shipping Name** : Check with air carrier for latest regulation

Identification Number : Hazard Class : Label Codes : ERG Code (IATA) : 14.4 In Accordance with TDG

Proper Shipping Name : CARTRIDGES, SMALL ARMS

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Hazard Class : 1.4S Identification Number : UN0012 Label Codes : 1.4S



Per 49CFR173.63(b): Limited quantities of Cartridges, small arms, Cartridges, power device, Cartridges for tools, blank, and Cases, cartridge, empty with primer. (1)(i) Cartridges, small arms, Cartridges, power device (used to project fastening devices), Cartridges for tools, blank, and Cases, cartridge, empty with primer that have been classed as Division 1.4S explosive may be offered for transportation and transported as limited quantities when packaged in accordance with paragraph (b)(2) of this section. Packages containing such articles may be marked with either the marking prescribed in §172.315(a) or (b) of this subchapter and offered for transportation and transported by any mode. For transportation by aircraft, the package must conform to the applicable requirements of §173.27 of this part. In addition, packages containing such articles offered for transportation by aircraft must be marked with the proper shipping name as prescribed in the §172.101 Hazardous Materials Table of this subchapter. Packages containing such articles are not subject to the shipping paper requirements of subpart C of part 172 of this subchapter unless the material meets the definition of a hazardous substance, hazardous waste, marine pollutant, or is offered for transportation and transported by aircraft or vessel. Additionally, packages containing such articles are excepted from the requirements of subparts E (Labeling) and F (Placarding) of part 172 of this subchapter.

#### **SECTION 15: REGULATORY INFORMATION**

# **US Federal Regulations**

Small Arms Ammunition – Ballisticlean Rifle & Pistol Ammunition	
SARA Section 311/312 Hazard Classes  Sudden release of pressure hazard	
Im	mmediate (acute) health hazard

Zinc (7440-00-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 % (dust or fume only)

#### Nitrocellulose (9004-70-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Copper (7440-50-8)

7inc (7//0-66-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

### Nitroglycerin (55-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

#### Diazodinitrophenol (4682-03-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# **US State Regulations**

# Zinc (7440-66-6)

- 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

#### Nitrocellulose (9004-70-0)

- 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

#### Copper (7440-50-8)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List

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

# Nitroglycerin (55-63-0)

- 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

### **Canadian Regulations**

Small Arms Ammunition – Ballisticlean Rifle & Pistol Ammunition	
WHMIS Classification  Note: Explosives are not regulated under WHMIS. They are subject to the regulations of the Explosives Act of Canada.	
Zinc (7440-66-6)	
Listed on the Canadian DSL (Domestic Sustances List)	

Nitrocellulose (9004-70-0)
Listed on the Canadian DSL (Demostic Sustances List)

WHMIS Classification

Note: Explosives are not regulated under WHMIS. They are subject to the regulations of the Explosives Act of Canada.

Uncontrolled product according to WHMIS classification criteria

### Diazodinitrophenol (4682-03-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

# Copper (7440-50-8)

WHMIS Classification

Listed on the Canadian DSL (Domestic Sustances List) Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

# Nitroglycerin (55-63-0)

Listed on the Canadian DSL (Domestic Sustances List)

WHMIS Classification

Note: Explosives are not regulated under WHMIS. They are subject to the regulations of the Explosives Act of Canada.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date** : 08/24/2018

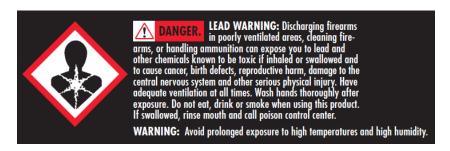
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### **Alternate Labeling:**

: Packaged ammunition may reflect the following markings and symbols different from information listed in Section 2. These markings and symbols are in response to existing state or national government interpretation as to the hazards posed by small arms ammunition and to firearm usage only. <a href="Pelese note Ballisticlean Centerfire Rifle & Pistol Ammunition contains no lead.">Please note Ballisticlean Centerfire Rifle & Pistol Ammunition contains no lead.</a>





#### Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

# Party Responsible for the Preparation of This Document

Federal Cartridge Company 900 Ehlen Drive Anoka, MN 55303 1-800-635-7656

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.

North America GHS US 2012 & WHMIS 2

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