



Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Standard JIS Z 7250:2000, and EU REACH Regulations

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CARTRIDGES - SHOTSHELL

CAS Number: Mixture – Metal Alloy

Synonyms: Shotshell Brands: BXD Waterfowl, BXD Upland, BPT Performance Target, BXS Shotshell Deer, Dove

& Clay, BXD Turkey

Shotshell Payload Names: Lead Shot, Steel Shot, Copper Cabot Slug

Shotshell Gauges: 20 Gauge 2-3/4 inch, 20 Gauge 3 inch, 16 Gauge 2-3/4 inch, 12 Gauge 2-3/4 inch,

12 Gauge 3 inch, 12 Gauge 3-1/2 inch

Product Use: Shotgun Loaded Ammunition

U.N. Number: U.N. Dangerous Goods UN 0012 Explosive

U.N. Dangerous Goods Class Explosive, 1.4S

Manufacturer: Olin Corporation d/b/a Browning Ammunition

Manufacturers' Address: PO Box 699, Arnold, MO 63010-0699 www.browningammo.com

**Emergency Telephone** 

Number:

US/Canada: 1-800-424-9300

Outside US/Canada: 703-527-3887

SDS Control Group: 636-548-7200 (Technical Information Only)

Revision Date: 1/20/2017

Revision No.: 2

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: EXPLOSIVE. KEEP AWAY FROM HEAT. DO NOT SUBJECT TO MECHANICAL SHOCK. PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT TAKE INTERNALLY.

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**US DOT SYMBOLS** 

## CANADA (WHMIS) SYMBOLS

### **GHS HAZARD SYMBOLS**



This Product is not subject to WHMIS

Class 6 Explosive



**GHS Classifications:** Explosive Division 1.4

STOT RE Category 1

Reproductive Toxicity Category 1A Aquatic Environment, Chronic II

Signal Word: Danger

<u>Hazard Statements</u>: H204: Fire or projection hazard

H372: Causes damage to nervous system, kidney, and hematopoietic system through prolonged

or repeated exposure

H360: May damage fertility or the unborn child H411: Toxic to aquatic life with long lasting effects

<u>Target organs:</u> Nervous, renal and hematopoietic systems

**Precautionary Statements:** P102: Keep out of reach of children

P210: Keep away from heat/sparks/open flame/hot surfaces

P250: Do not subject to shock/friction

P260: Do not breathe fumes

P264: Wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product P271: Use only outdoors or in a well-ventilated area

P273: Avoid release to the environment

P280: Wear protective clothing/eye protection/hearing protection

P370+P380: In case of fire: Evacuate area

P374: Fight fire with normal precautions from a reasonable distance

P410: Store in accordance with local regulations

P501: Dispose of contents in accordance with local regulations

GHS Pictograms: Explosive; Pictogram: exploding bomb

Specific Target Organ Toxicity; Pictogram Code: GHS08

Environment; Pictogram Code: GHS09

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**EU Classifications:** 

Hazard Symbols E, T, N

Risk Phrases R2: Risk of explosion by shock, friction, fire or other sources of ignition

R48: Danger of serious damage to health by prolonged exposure

R60: May impair fertility

R63: Possible risk of harm to the unborn child

R51/53: Toxic to aquatic organisms and many cause long-term adverse effects in the aquatic

environment

Safety Phrases S2: Keep out of reach of children

S15: Keep away from heat

S20/21: When using do not eat, drink or smoke

S23: Do not breathe fumes S39: Wear eye/face protection

S43: In case of fire, use Class A equipment S51: Use only in well-ventilated areas S61: Avoid release to the environment

#### **Health Hazards or Risks From Exposure**

This product is composed of a plastic tube and finished metal alloy cartridge which contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the ammunition is fired, a small amount of particles may be generated which may be slightly irritating to the eyes and the respiratory tract. The particles may contain trace amounts of these harmful substances:

<u>Lead:</u> Ingestion of large amounts of lead can cause abdominal pain, constipation, cramps, nausea and/or vomiting. 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.

<u>Copper:</u> Inhalation of high concentrations of metallic copper dusts or fumes may cause nasal irritation and/or nausea, vomiting and stomach pain.

Nitroglycerin: Will produce dilation of blood vessels and drop in blood pressure which may affect the heart. It has also been shown to cause methemoglobinemia (cyanosis).

Dibutyl phthalate: May cause harm to the unborn child based on animal experiments. Possible risk of impaired fertility.

<u>Nickel:</u> Repeated exposure may cause an allergic skin reaction consisting of itching, redness, swelling, and rash or urticaria (hives) in sensitized individuals. Epidemiological studies in humans have shown an association between lung and nasal cancers and prolonged occupational exposures to high concentrations of nickel.

<u>Chromium</u>: Exposure to high concentrations of chromium dusts or fumes can cause severe respiratory and nasal irritation. Prolonged or repeated exposures to chromium dusts or fumes may cause perforation of the nasal septum, bloody nose and other symptoms of severe nasal irritation.

<u>Arsenic</u>: Epidemiological studies in humans have shown an association between increased incidences of lung and skin cancer and prolonged exposures to high concentrations of arsenic. Arsenic is classified as a known human carcinogen.

<u>Manganese</u>: Chronic exposure to very high concentrations of manganese dust has caused nervous system effects including muscle weakness, tremors, and behavioral changes.

It is unlikely that the amount of particles that someone would be exposed to from firing a loaded round would be sufficient to cause any of these effects.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

This MSDS covers a number of different products consisting of the following components:

- A) Load can be Lead Shot or Slug, Steel Shot, or Bismuth Shot
- B) Plastic Shotshell Case
- C) Wad
- D) Propellant
- E) Primer
- F) Buffer (Considered to be a manufactured article)
- G) Resin

Components	% By Weight	CAS Number	EINECS/ ELINCS #				
If The Load Is Lead	ld d Shot or Slug						
Lead	34 - 61	7439-92-1	231-100-4				
Antimony	0.1 - 5	7440-36-0	231-146-5				
Arsenic	0.1 – 1.5	7440-38-2	231-148-6				
If The Load Is Steel Shot							
Iron	36 – 42	7439-89-6	231-096-4				

Copper	0.1 – 4	7440-50-8	231-159-6
Manganese	0.1 – 3	7439-96-5	231-105-1
Nickel	0.1 – 3	7440-02-0	231-111-4
Chromium (non-	0.1 – 2	7440-47-3	231-157-5
hexavalent)			
Silicon	0.1 – 2	7440-21-3	231-130-8
If The Load Is Bisn	nuth Shot		
Bismuth	18 -60	7440-69-9	231-177-4
Tin	0.8 - 6.2	7440-31-5	231-141-8
Zinc	5 – 15	7440-66-6	231-175-3
Ingredients In Othe	er Components		
Polyethylene	10 – 17	9002-88-4	Polymer
Copper	7 – 12	7440-50-8	231-159-6
Zinc	1 – 4	7440-66-6	231-175-3
Wad(non-	4 -11	Mixture	Not applicable
hazardous)			
Nitrocellulose	5 - 10	9004-70-0	Polymer
Nitroglycerin	0.5 - 2	55-63-0	200-240-8
Dibutyl phthalate	0.5 - 2	84-74-2	201-55-74
Iron	1 -5	7439-89-6	231-096-4
Lead Styphnate	0.1 - 1	15245-44-0	239-290-0

#### 4. FIRST AID MEASURES

Eye Contact: Immediately flush out fume or particles with large amounts of water for at least 15 minutes, occasionally lifting

the upper and lower eyelids. If eye irritation develops, call a physician at once.

Skin Contact: Wash skin with plenty of soap and water.

Inhalation: If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to

fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at

rest. Get medical attention.

<u>Ingestion:</u> If ingested, immediately call a physician.

## Medical Conditions Aggravated By Exposure:

There are no medical conditions known to be aggravated by exposure to this product in its solid form. Exposure to lead can aggravate anemia, cardiovascular and respiratory disease.

### Recommendations To Physcians:

Remove from exposure, if possible, and treat symptoms

### 5. FIRE FIGHTING MEASURES

PROPERTY	1/////	PROPERTY	VALUE				
PROPERTY	VALUE	PROPERTY	VALUE				
Explosive	Yes	Flammable	Not applicable				
Combustible	Not applicable	Pyrophoric	No				
Flash Point (°C):	Not applicable	Burning Rate of Material:	Not applicable				
Lower Explosive Limit:	Not applicable	Autoignition Temp.:	No data				
Upper Explosive Limit:	Not applicable	Flammability Classification: (defined by 29 CFR 1910.1200)	Explosive				
Unusal Fire and Explosion	<u>n Hazards:</u>	Possible projection hazard.					
Extinguishing Madia:		Flood area with water. If no water is available, earlies diavid	a dru abaraigal ar				

Extinguishing Media: Flood area with water. If no water is available, carbon dioxide, dry chemical or

earth may be used.

<u>Special Firefighting Procedures:</u> Do not fight fire when fire reaches cargo. Cargo may explode.

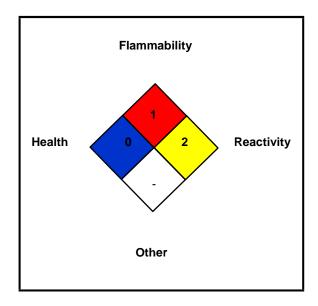
Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. Structural firefighters' protective clothing will only provide limited protection.

Isolate materials not yet involved in the fire. Move containers from fire area if possible; otherwise, cool with carefully applied water spray.

Prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas, if practical.

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### **NFPA RATING SYSTEM**



### **HMIS RATING SYSTEM**

HEALTH	I HAZAR	D (BLUE)		0*			
FLAMM	ABILITY	HAZARD (RED)		1			
PHYSICAL HAZARD (YELLOW)							
PROTECTIVE EQUIPMENT							
EYES PPE RESPIRATORY HEARING							
A See Sect 8 See Sect 8							

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## 6. ACCIDENTAL RELEASE MEASURES

## FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

Spill Response:

A spill of this material will normally not require emergency response team capabilities. If, however, a large spill occurs, call 1-888-289-1911 for technical assistance.

Accidental Release Procedures:

Spills of this material should be handled carefully. Do not subject materials to mechanical shock. Collect material and place in a designated, labeled waste container. See Section 13 for waste disposal.

# 7. HANDLING AND STORAGE

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Precautions for Safe Handling:

Conditions for Safe Storage:

Use appropriate personal protective equipment (see Section 8). Workers should wash hands thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Store in accordance with local regulations. Store in original containers in a cool, dry location away from Acids, Class A & B explosives, strong oxidizers, and caustics. Avoid mechanical impact or shock and electrical discharge.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters:

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7440-50-8	Copper	0.2 mg/m³ (fume), 1 mg/m³ (dusts and mists)	0.1 mg/m³ (fume) 1 mg/m³ (dusts and mists)	Austria, Belgium, Canada: 0.2 mg/m³ (fumes), 1 mg/m³ (dusts) Denmark: 1.0 mg/m³ (dust and powder) Germany (MAK): 0.1 mg/m³ (fume), 1 mg/m³ (dusts and mists)
7439-92-1	Lead	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	Austria, Denmark, Germany, Sweden, Switzerland: 0.1 mg/m³ Norway, Poland: 0.05 mg/m³
7440-66-6	Zinc	None established	None established	None established
9004-70-0	Nitrocellulose	None established	None established	None established
55-63-0	Nitroglycerin	0.05 ppm (0.46 mg/m³) Skin	Ceiling – 0.2 ppm (2 mg/m³)	Denmark: 0.02 ppm (0.2 mg/m³) Norway, Sweden: 0.03 ppm (0.3 mg/m³) Austria, Belgium, Germany, The Netherlands, Poland, Switzerland: 0.05 ppm (0.47 mg/m³), skin Finland, France: 0.1 ppm (0.9 mg/m³), skin U.K.: 0.2 ppm (2 mg/m³), skin
84-74-2	Dibutyl phthalate	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Belgium, Denmark, France, Netherlands, Switzerland, U.K.: 5 mg/m <sup>3</sup> Sweden: 3 mg/m <sup>3</sup>
7440-02-0	Nickel	1.5 mg/m <sup>3</sup> (inhalable)	1 mg/m <sup>3</sup>	Germany, MAK = 1 mg/m³ Canada (B.C.), Czechoslovakia, Denmark, Norway – 0.05 mg/m³, K1, sensitizer Poland = 0.25 mg/m³ Ireland, Sweden, Switzerland, U.K. = 0.5 mg/m³ Belgium, Canada (Alberta & others), Finland, Japan, Mexico, Netherlands – 1 mg/m³ Portugal = 1.5 mg/m³
7440-36-0	Antimony	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	Austria, Belgium, Denmark, France, Finland, Germany, Hungary, Netherlands, Norway, Poland, Sweden, UK: 0.5 mg/m³
7439-89-6	Iron	None established	None established	None established
7440-31-5	Tin	2 mg/m <sup>3</sup>	2 mg/m³	U.K. (LTEL): 5 mg/m <sup>3</sup> Austria & Germany (MAK), Belgium, Finland, Denmark, The Netherlands, Poland, Switzerland: 2 mg/m <sup>3</sup> Hungary, Norway: 1 mg/m <sup>3</sup>
7440-47-3	Chromium	0.5 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	Belgium, Denmark, France, Japan, Netherlands, Sweden, U.K. – 0.5 mg/m <sup>3</sup> Finland – 0.1 mg/m <sup>3</sup>
7440-38-8	Arsenic	0.01 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>	Germany, MAK – 1 mg/m³ Austria, Belgium, Finland, Japan, Holland, Czechoslavakia, Hungary and Poland - 0.5 mg/m³ Italy – 0.25 mg/m³ Switzerland, Canada (Alberta & others) – 0.2 mg/m³ Sweden – 0.05 mg/m³ Canada (B.C.), Denmark = 0.01 mg/m³, K1
7440-21-3	Silicon	None established	None established	Belgium, Denmark, France, Netherlands, U.K. – 10 mg/m <sup>3</sup> Switzerland – 4 mg/m <sup>3</sup>
7439-96-5	Manganese	0.2 mg/m <sup>3</sup>	Ceiling – 5 mg/m <sup>3</sup>	Belgium, Denmark, Finland, France, Switzerland,

				U.K. – 1 mg/m <sup>3</sup> Sweden – 2.5 mg/m <sup>3</sup>
				Germany (MAK) – 0.5 mg/m <sup>3</sup>
7440-69-9	Bismuth	None established	None established	None established
9002-88-4	Polyethylene	None established	None established	None established
55-63-0	Lead Styphnate	None established	None established	None established

Engineering Controls: Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated.

Otherwise, use general exhaust ventilation.

Respiratory Protection: Not normally needed. Maintain airborne contaminant concentrations below guidelines listed above.

Use an appropriate approved air-purifying respirator equipped with HEPA cartridges/canisters where

there is the potential for exceeding established occupational exposure limits.

<u>Eye/Face Protection:</u>
<u>Hand Protection:</u>

Skin Protection:

Use safety glasses.
Not normally needed
Not normally needed.

<u>Hearing Protection:</u> Not normally needed. During firing use hearing protection.

General Hygiene: Do not eat, drink, or smoke while using this product. Wash hands thoroughly after use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
Appearance:	Cylindrical plastic cartridge	Physical State:	Solid
	with metal base		
Odor:	None	Odor Threshold:	None
Boiling Point (°F):	Not applicable	Melting point:	Not applicable
Vapor Pressure (mm Hg):	Not applicable	Freezing point:	Not applicable
Vapor Density(air = 1):	Not applicable	Bulk Density	Not applicable
Specific gravity (g/cc):	Not applicable	Viscosity (cps):	Not applicable
pH:	Not applicable	Decomposition Temperature:	Not applicable
Solubility in Water (20 ℃):	Insoluble	Evaporation Rate:	Not applicable
Volatiles, Percent by volume:	Not applicable	Octanol/water partition coefficient:	Not applicable

#### 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressure.

<u>Possibility of Hazardous Reactions:</u> Hazardous polymerization will not occur

Incompatible Materials: Acids, Class A & B explosives, strong oxidizers, and caustics

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, lead oxides, carbon dioxide, lead

dust/fume

<u>Conditions to Avoid:</u> Contact with incompatible materials. Physical damage to containers;

cartridges may detonate if case is punctured.

#### 11. TOXICOLOGICAL INFORMATION

Potential Routes of Entry: Inhalation, Skin, and by Ingestion.

The physical nature of this product makes absorption from any route unlikely. A small amount of inhalable particles may be created when cartridge is fired.

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	SELECTED COMPONENTS										
PRO	ODUCT	Lead	Nickel	Arsenic	Nitro- glycerin	Dibutyl phthalate	Copper	Mangan ese	Bismuth	Antimon y	Chromi um
Inhalation LC <sub>50</sub>	Particles generated from firing may be slightly toxic	No data	>12 mg/kg, it (rat)	No data	No data	4250 mg/m <sup>3</sup> (rat)	No data	No data	No data	No data	87 mg/m³ (rat)
Skin Contact LD <sub>50</sub>	Skin absorption unlikely	No data	>7.5 g/kg, sc (rabbit)	No data	>280 mg/kg (rabbit)	>20 ml/kg (rabbit)	375 mg/kg, sc (rabbit)	No data	No data	No data	No data
Ingestion LD <sub>50</sub>	Ingestion unlikely	No data	>5 g/kg (rat)	763 mg/kg (rat)	105 mg/kg (rat)	8 g/kg (rat)	3.5 mg/kg, ip (mouse)	9 g/kg (rat)	5 g/kg (rat)	7 g/kg (rat)	27.5 mg/kg (rat)
Irritation	Particles generated from firing may be slightly irritating to the eyes	Not irritating	Respir- atory irritant	No data	Mild eye & skin irritant	No data	Respir- atory irritant	Mild eye & skin irritant	Not irritating	No data	Nasal & respir- atory irritant
Sensitizat ion	Sensitization to this Product has not been reported	No data	Skin sensitizer	No data	No data	No data	No data	No data	No data	No data	No data

### Effects Of Acute Exposure:

#### Other Adverse Effects:

Target Organ Toxicity:

Reproductive Toxicity:

Teratogenicity (Birth Defects):

Mutagenicity:

Carcinogenicity:

No reported target organ toxicity from this product. Lead has caused nervous system, kidney and hematopoietic system damage in humans and laboratory animals. Chronic exposure to very high concentrations of manganese dust has caused nervous system effects including muscle weakness, tremors, and behavioral changes in humans.

This product is not known or reported to cause reproductive effects. Lead has been shown to reduce male reproductive function in humans and laboratory animals. Dibutyl phthalate has caused adverse reproductive effects in animal studies. Exposure of male rats to high concentrations of nickel caused testicular degeneration.

This product is not known or reported to cause developmental toxicity. Lead has been shown to affect fetal development; changes including birth defects have been reported. Dibutyl phthalate has also been reported to cause adverse developmental effects in animal studies.

This product is not known or reported to be mutagenic. Lead has been shown to be mutagenic in several *in vitro* assays. Nickel has been shown to be mutagenic in *in vitro* studies.

This product is not listed as a carcinogen by OSHA, NTP or IARC. IARC lists lead as possibly carcinogenic to humans, group 2B. Arsenic is listed as a known human carcinogen by IARC (Group 1), OSHA, NTP and EPA. In laboratory animal studies, chronic exposure to high concentrations of nickel has caused an increase in lung and nasal tumors. IARC has classified nickel as possibly carcinogenic to humans, group 2B.

## 12. ECOLOGICAL INFORMATION

**Environmental Effects:** 

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PRODUCT: Product has not been tested for environmental properties. Lead shot has been shown to be toxic to aquatic species.

COMPONENTS:

Arsenic: Daphnia magna, 48 hr.  $LC_{50} = 3.8$  mg/L; Fathead minnow, 96 hr  $LC_{50} = 9.9$ 

mg/L

<u>Chromium:</u> Daphnia magna, 48 hr.  $LC_{50} = 0.022$  mg/L; Fathead minnow, 96 hr  $LC_{50} = 39$ 

mg/L

Copper: Copper concentrations from 0.1 to 1.0 mg/l have been found to be not toxic for

most fish. However, concentrations of 0.015 to 3.0 mg/l have been reported as

toxic, particularly in soft water to many kinds of fish, crustacea, mollusks,

insects, and plankton.

<u>Lead:</u> Bluegill sunfish, 48 hr.  $LC_{50} = 2-5$  mg/l. Lead is toxic to waterfowl.

Nickel: Freshwater algae (4 species), 72 hr. EC<sub>50</sub> = 0.1 mg/L; *Daphnia* magna, 96 hr

 $LC_{50} = 0.51$  mg/L; Rainbow trout, 96 hr  $LC_{50} = 31.7$  mg/L; Fathead minnow, 96

 $hr LC_{50} = 3.1 mg/L$ 

Nitroglycerin: Bluegill sunfish, 96 hour  $LC_{50} = 1.228$  mg/l (static) Nitrocellulose:  $LC_{50} > 1000$  mg/l to fish, invertebrates, and algae.

<u>Zinc</u>: The following concentrations of zinc have been reported as lethal to fish: 0.13

mg/l, for 12 – 24 hours to Rainbow trout fingerlings; 1.9 – 3.6 mg/l, 6 hr TLM (soft water, 30°C) to Bluegill Sunfish; 4 mg/l, 3 days (hard water) to Rainbow

trout; 1 mg/l, 24 hours (soft water) to Sticklebacks.

The presence of copper appears to have a synergistic effect on the toxicity of

zinc towards fish.

**Environmental Fate:** 

MOBILITY: Dissolved lead from degraded bullets may migrate through soil.

PERSISTANCE/DEGRADABILITY: Not biodegradable. Bullets may fragment and decompose in soil leading to accumulation

of lead.

BIOACCUMULATION: No data

## 13. DISPOSAL CONSIDERATIONS

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding the treatment, storage and disposal for hazardous and nonhazardous wastes.

#### 14. TRANSPORT INFORMATION

Regulatory Information for US DOT, IATA, IMO, and ADR:

<u>Proper Shipping Name:</u> Cartridges, small arms (other than blanks)

Hazard Class Number and Description: Explosive 1.4S

<u>UN Identification Number:</u> UN 0012

Packing Group: PGII

<u>DOT Label(s) Required:</u> Label Not Required for ground shipment.

Marine Pollutant: None of the ingredients are classified by the DOT as a Marine Pollutant (as

defined by 49 CFR 172.101, Appendix B)

Additional Information:

North American Emergency Response Guidebook Number: 114 Most Current Version is 2012

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING REGULATIONS: This product is classified as dangerous goods under 49 CFR 172.101. Note: May be reclassified domestically as an ORM-D or Limited Quantity if packaged in accordance with 49 CFR 173.63.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is classified as Dangerous Goods (If packaged appropriately this product may ship as a Limited Quantity).

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is classified as Dangerous Goods.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is classified as Dangerous Goods (If packaged appropriately this product may ship as a Limited Quantity).

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is classified by the United Nations Economic Commission for Europe to be dangerous goods. (If packaged appropriately this product may ship as a Limited Quantity).

#### 15. REGULATORY INFORMATION

#### **US FEDERAL**

TSCA	The components of this product are listed on the Toxic Substance Control Act inventory.								
CERCLA:	Antimony, R.Q. = 5000 lbs.; Chromium, R.Q. = 5000 lbs.; Copper, R.Q.* = 5000 lbs.; Zinc, R.Q. = 1000 lbs.; Nickel, R.Q. = 100 lbs.; Lead, R.Q. = 10 lbs.; Nitroglycerin, R.Q. = 10 lbs; Dibutyl phthalate, R.Q. = 10 lbs.; Arsenic, R.Q. = 1 lb. (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches)).								
SARA 313:	Copper, Lead and Lead compounds, Zinc (fume or dust), Nitroglycerin, Dibutyl phthalate, Nickel, Antimony, Chromium, Arsenic, Manganese								
SARA 311/312:	Health: Acute – No Fire: No Reactivity: None Release of Pressure: Yes Chronic - No								
SARA 302 EHS List:	None of the components of this product are listed.								

<sup>\*</sup>RQ = Reportable Quantity

## STATE RIGHT-TO-KNOW STATUS

Component	California	New Jersey	Pennsylvania	Massachusetts	Michigan
Copper	Not listed	Х	X	X	X
Lead	Х	X	X	X	Х
Zinc	Not listed	Х	Not listed	X	Х
Nitrocellulose	Not listed	X	Х	X	Not listed
Nitroglycerin	Not listed	X	X	X	Not listed
Dibutyl phthalate	Not listed	Х	X	X	Х
Nickel	X	X	X	X	Х
Iron	Not listed	Not listed	Not listed	Not listed	Not listed
Antimony	Not listed	X	X	X	Х
Tin	Not listed	Not listed	X	X	Not listed
Chromium (not hexavalent)	Not listed	X	X	X	Х
Arsenic	Х	X	X	X	Х
Silicon	Not listed	Not listed	X	X	Not listed
Manganese	Not listed	X	Х	X	Not listed
Bismuth	Not listed	Not listed	Not listed	Not listed	Not listed
Polyethylene	Not listed	Not listed	Not listed	Not listed	Not listed
Lead styphnate	Х	Not listed	Not listed	X	Not listed

## CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

Warning! This product contains detectable amounts of a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm.

#### **GHS CLASSIFICATION**

Explosive Division 1.4 STOT RE Category 1

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Reproductive Toxicity Category 1A Aquatic Environment, Chronic II

#### **EUROPEAN REGULATIONS**

All chemical components listed on EINECS except polyethylene and nitrocellulose (considered polymers)

**Hazard Classification** 

Danger Symbols: E, T, N

Risk Phrases: R2, R48, R60, R63, R51/53

Safety Phrases: S2, S15, S20/21, S22, S39, S51, S61

German WGK Classification: Not known.

**CANADIAN REGULATIONS** 

DSL/NDSL Inventory: The components of this product are on the DSL

IDL: Lead, Antimony, Arsenic, Copper, Manganese, Nickel, Chromium, Tin, Dibutyl phthalate

CEPA PRIORITIES LIST: Dibutyl phthalate

WHMIS: This product is not subject to WHMIS. It is regulated as a Class 6 Explosive in Canada.

JAPANESE REGULATIONS

Existing National Inventory of Chemical Substances (ENCS): The components of this product are Listed

Japanese Priority Assessment Chemical Substances: None of the components of this product s are listed

OTHER INTERNATIONAL CHEMICAL INVENTORIES

Swiss Giftliste List of Toxic Substances:
All Components Listed
Australian Inventory (AICS):
All Components Listed

#### 16. OTHER INFORMATION

REVISIONS:

PREPARED BY: Olin Corporation d/b/a Browning Ammunition

OTHER: Additional information available from: www.browningammo.com

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