



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

## PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 

**LEAD SHOT AND SLUGS** 

**CAS Number:** 

Mixture - Metal Alloy

Synonyms:

Hard Lead Shot, Shot, Hard Lead Slugs, Slugs

**Product Use:** 

Projectiles for shotshells

U.N. Number:

None

U.N. Dangerous Goods

Not regulated

Class

Manufacturer:

Olin Corporation - Winchester Division, Inc.

Manufacturers' Address:

600 Powder Mill Road, East Alton, IL 62024 www.winchester.com

**Emergency Telephone** 

Number:

US/Canada: 1-800-424-9300

Outside US/Canada: 703-527-3887

**SDS Control Group:** 

618-258-3507 (Technical Information Only)

lin SDS No.: 00077.0001

Issue Date: 03/04/15

**Revision Date:** 

**Revision No.:** 

# HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT TAKE INTERNALLY.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

**GHS HAZARD SYMBOLS** 

Not Regulated

This Product is not subject to WHMIS



**GHS Classifications:** 

STOT RE Category 2

Reproductive Toxicity Category 2 Aquatic Environment, Chronic II

Signal Word:

Warning

**Hazard Statements:** 

H373: May cause damage to nervous system, kidney, and hematopoietic system through

prolonged or repeated exposure

H361: Suspected of damaging fertility or the unborn child H411: Toxic to aquatic life with long lasting effects

Target organs:

Nervous, renal and hematopoietic systems

Precautionary Statements:

P102: Keep out of reach of children

P260: Do not breathe dust/fume/gas/mist/vapors/spray

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 gloves/protective clothing/eye protection/face protection

**GHS Pictograms:** 

Specific Target Organ Toxicity; Pictogram Code: GHS08

Environment; Pictogram Code: GHS09

**EU Classifications:** 

Hazard Symbols

Xn, N

Risk Phrases

R48: Danger of serious damage to health by prolonged exposure R62/63: Possible risk of impaired fertility or 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

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

S22: Do not breathe dust S39: Wear eye/face protection S51: Use only in well-ventilated areas S61: Avoid release to the environment

## Health Hazards or Risks From Exposure

This product is composed of finished metal-alloy shot or finished metal-alloy slugs. Therefore, under normal handling of this product no exposure to any harmful materials are likely to occur. When the shot or slugs are fired, a small amount of particles may be generated which may be slightly irritating to the eyes and 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.

Arsenic: 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.

It is unlikely that the amount of particles that someone would be exposed to from firing this shot or slug would be sufficient to cause any of these effects.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% By Weight	CAS Number	EINECS/ ELINCS #		
Lead	99	7439-92-1	231-100-4		
Antimony	1 – 5	7440-36-0	231-146-5		
Arsenic	0.1 - 1	7440-38-2	231-148-6		

#### 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.

Ingestion: 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	VALUE	PROPERTY	VALUE
Explosive	No	Flammable	No
Combustible	Not applicable	Pyrophoric	No
Flash Point (°C):	Not applicable	Burning Rate of Material:	Not applicable
Lower Explosive Limit:	Not applicable	Autoignition Temp.:	Not applicable
Upper Explosive Limit:	Not applicable	Flammability Classification: (defined by 29 CFR 1910.1200)	
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Unusal Fire and Explosion Hazards:

Extinguishing Media:

Special Firefighting Procedures:

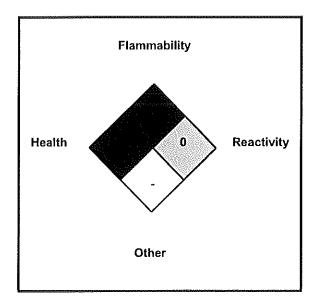
None

Not Applicable - Choose extinguishing media suitable for surrounding materials. In case of fire, use normal fire fighting equipment. Response to this material requires the use of a self-contained breathing apparatus (SCBA).

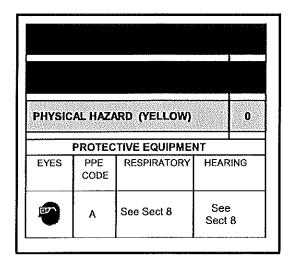
Prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas, if practical.

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# NFPA RATING SYSTEM



## **HMIS RATING SYSTEM**



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. This material is heavier than and insoluble in water. Use clean shovel or broom to pick up and place in clean container for disposal. If, however, a large spill occurs, call 1-888-289-1911 for technical assistance.

Accidental Release Procedures:

Place collected material in a designated, labeled waste container. See Section 13 for waste disposal.

#### HANDLING AND STORAGE

Precautions for Safe Handling:

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.

Conditions for Safe Storage:

Store in original containers in a cool, dry location away from acids and caustics.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

## Control parameters:

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
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/m <sup>3</sup> Norway, Poland: 0.05 mg/m <sup>3</sup>
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/m <sup>3</sup>
7440-38-2	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

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

Otherwise, use general exhaust ventilation.

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

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

there is the potential for exceeding established occupational exposure limits.

Use safety glasses. Eye/Face Protection: Not normally needed Hand Protection: Not normally needed. Skin Protection:

Not normally needed. During firing use hearing protection. Hearing Protection:

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

#### PHYSICAL AND CHEMICAL PROPERTIES 9.

PROPERTY	VALUE	PROPERTY	VALUE
Appearance:	Round or cylindrical	Physical State:	Solid
	projectile(s) – gray		
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

#### STABILITY AND REACTIVITY 10.

Stability:

Possibility of Hazardous Reactions:

Incompatible Materials:

**Hazardous Decomposition Products:** 

Stable under normal temperatures and pressure.

Hazardous polymerization will not occur

Acids and caustics

Metals may liberate hydrogen gas from reaction with acids. Metal oxides, lead

dust/fume

Contact with incompatible materials.

SDS No.: 000077.0001

Conditions to Avoid:

#### 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.

# Effects Of Acute Exposure:

PRODUCT		COMPONENTS			
		Lead	Arsenic	Antimony	
Inhalation LC <sub>50</sub>	Particles generated from firing may be slightly toxic	No data	No data	No data	
Skin Contact LD <sub>50</sub>	Skin absorption unlikely	No data	No data	No data	
Ingestion LD <sub>50</sub>	Ingestion unlikely	No data	763 mg/kg (rat)	7 g/kg (rat)	
Irritation	Particles generated from firing may be slightly irritating to the eyes	Not irritating	No data	No data	
Sensitizat ion	Sensitization to this Product has not been reported	No data	No data	No data	

## Other Adverse Effects:

Target Organ Toxicity:

No reported target organ toxicity from this product. Lead has caused nervous system, kidney and hematopoietic system damage in humans and laboratory

animals.

Reproductive Toxicity:

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.

Teratogenicity (Birth Defects):

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.

Mutagenicity:

This product is not known or reported to be mutagenic. Lead has been shown to be

mutagenic in several in vitro assays.

Carcinogenicity:

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.

#### ECOLOGICAL INFORMATION

#### Environmental Effects:

PRODUCT:

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

## COMPONENTS:

'<u>.ead:</u> <u>Arsenic</u>: Bluegill sunfish, 48 hr.  $LC_{50}$  = 2-5 mg/l. Lead is toxic to waterfowl. Daphnia magna, 48 hr.  $LC_{50}$  = 3.8 mg/L; Fathead minnow, 96 hr  $LC_{50}$  = 9.9

mg/L

## Environmental Fate:

MOBILITY:

Dissolved lead from degraded shot and slugs may migrate through soil.

PERSISTANCE/DEGRADABILITY:

Not biodegradable. Shot and slugs 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:

This product is not regulated

Proper Shipping Name:

None

**Hazard Class Number and Description:** 

None

**UN Identification Number:** 

None

Packing Group:

None

**DOT Label(s) Required:** 

None

Marine Pollutant:

No information

# 15. REGULATORY INFORMATION

# **US FEDERAL**

TSCA	The compo	The components of this product are listed on the Toxic Substance Control Act inventory.				
CERCLA:	Antimony,	Antimony, R.Q. = 5000 lbs.; Lead, R.Q. = 10 lbs.; Arsenic, R.Q. = 1 lb. (No reporting is required if				
	diameter o	diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches)).				
SARA 313:	Antimony,	Antimony, Arsenic, Lead and Lead compounds				
SARA 311/312:	<u>Health</u> :	Acute - No	<u>Fire</u> : No	Reactivity: None	Release of Pressure: No	
		Chronic - Yes				
SARA 302 EHS List:	None of the	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
nad nad	X	X	Х	Х	X
atimony	Not listed	Х	Х	X	X
Arsenic	X	Х	X	X	Х

## 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 nd/or birth defects or other reproductive harm.

## GHS CLASSIFICATION

STOT RE Category 2 Reproductive Toxicity Category 2 Aquatic Environment, Chronic II

#### **EUROPEAN REGULATIONS**

All chemical components listed on EINECS

**Hazard Classification** 

Danger Symbols:

Xn, N

Risk Phrases:

R48, R62/63, R51/53

Safety Phrases:

S2, 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

'DL:

Antimony, Arsenic, Lead

CEPA PRIORITIES LIST: None

WHMIS:

This product is not subject to WHMIS. It is considered to be a manufactured article.

## 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:

Ofin Corporation

OTHER:

Additional information available from: www.winchester.com

NOTICE: THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. OLIN BELIEVES THIS INFORMATION TO BE RELIABLE AND CURRENT AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.