

# SAFETY DATA SHEET

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:	BULLETS
CAS Number:	Mixture – Metal Alloy
Synonyms:	Soft Point Bullets, Full Metal Jacket Bullets, Power Point Bullets, Jacketed Hollow Point Bullets, Win
Product Use:	Mag, Centerfire Bullets Projectile
U.N. Number:	None
U.N. Dangerous Goods	Not regulated
Class	
Manufacturer/Responsible Party:	Olin Winchester, LLC
Manufacturers' Address:	600 Powder Mill Road, East Alton, IL 62024 www.winchester.com
Manufacturers Address.	000 Fowder Will Road, East Alton, 12 02024 <u>www.willchester.com</u>
Emergency Telephone	US/Canada: 1-800-424-9300
Number:	Outside US/Canada: 703-527-3887
SDS Control Group:	618-258-3507 (Technical Information Only)
Olin SDS No.: 00089.0001	Issue Date: 02/20/2015
OIN SDS NO.: 00089.0001	Issue Date: 02/20/2015
Revision Date: 02/28/2019	
Revision No.: 05	

# 2. HAZARDS IDENTIFICATION

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

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

Not Regulated

This Product is not subject to WHMIS

GHS HAZARD SYMBOLS





GHS Classifications:	Carcinogenicity Category 1A Reproductive Toxicity Category 1A STOT RE Category 2 Aquatic Environment, Chronic II
Signal Word:	Warning
<u>Hazard Statements :</u>	<ul> <li>H350: May cause cancer</li> <li>H360: May damage fertility or the unborn child</li> <li>H361: Suspected of damaging fertility or the unborn child</li> <li>H362: May cause harm to breast-fed children</li> <li>H373: May cause damage to nervous system, kidney, and hematopoietic system through prolonged or repeated exposure</li> <li>H411: Toxic to aquatic life with long lasting effects</li> </ul>
Target organs:	Nervous, renal and hematopoietic systems
Precautionary Statements:	<ul> <li>P102: Keep out of reach of children</li> <li>P260: Do not breathe dust/fume/gas/mist/vapors/spray</li> <li>P264: Wash hands thoroughly after handling</li> <li>P270: Do not eat, drink or smoke when using this product</li> <li>P271: Use only outdoors or in a well-ventilated area</li> <li>P273: Avoid release to the environment</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection</li> </ul>
GHS Pictograms:	Specific Target Organ Toxicity; Pictogram Code: GHS08 Environment; Pictogram Code: GHS09
EU Classifications: Hazard Symbols Risk Phrases	Xn, N R45 (Category 1): May cause cancer 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	<ul> <li>S2: Keep out of reach of children</li> <li>S20/21: When using do not eat, drink or smoke</li> <li>S22: Do not breathe dust</li> <li>S39: Wear eye/face protection</li> <li>S51: Use only in well-ventilated areas</li> <li>S61: Avoid release to the environment</li> </ul>

# Health Hazards or Risks From Exposure

This product is composed of a finished metal alloy bullet. Therefore, under normal handling of this product, no exposure to any harmful materials are likely to occur. When the bullet 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:

Lead: 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. Occupational exposure to lead is associated with lung and stomach cancer. Lead is classified as a probable human carcinogen.

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

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

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% By Weight	CAS Number	EINECS/ ELINCS #
Lead	60 – 100	7439-92-1	231-100-4
Copper/Zinc Alloy	5 – 35	Mixture	Mixture

#### 4. FIRST AID MEASURES

Eye Contact:Immediately flush out fume or particles with large amounts of water for at least 15 minutes, occasionally lifting<br/>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<br/>fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at<br/>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:

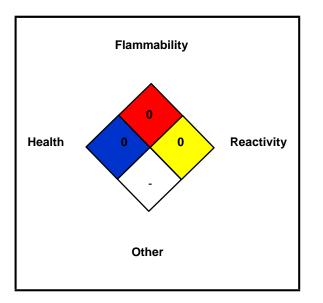
Remove from exposure, if possible, and treat symptoms

#### 5. FIRE FIGHTING MEASURES

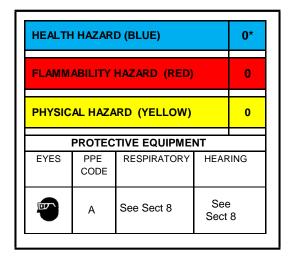
Explosive No Flammable No Combustible Not applicable Pyrophoric No	PROPERTY VAL		PROPERTY	VALUE
Combustible Not applicable Pyrophoric No	Explosive No		Flammable	No
	Combustible Not a		Pyrophoric	No
Flash Point (°C): Not applicable Burning Rate of Material: Not applicable	Flash Point (°C): Not a		Burning Rate of Material:	Not applicable
Lower Explosive Limit: Not applicable Autoignition Temp.: Not applicable	wer Explosive Limit: Not a		Autoignition Temp.:	Not applicable
Upper Explosive Limit: Not applicable Flammability Classification: (defined by 29 CFR 1910.1200) Not applicable	oper Explosive Limit: Not a	Flammability (	Classification: (defined by 29 CFR 1910.1200)	Not applicable
Unusal Fire and Explosion Hazards: Extinguishing Media:None Not Applicable - Choose extinguishing media suitable for surrounding mate In case of fire, use normal fire fighting equipment. Response to this materia 	nguishing Media:	Not Applicable In case of fire	use normal fire fighting equipment. Response	to this material

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

#### 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.

### 7. HANDLING AND STORAGE

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
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>
Copper	0.2 mg/m <sup>3</sup> (fume), 1 mg/m <sup>3</sup> (dusts and mists)	0.1 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dusts and mists)	Austria, Belgium, Canada: 0.2 mg/m <sup>3</sup> (fumes), 1 mg/m <sup>3</sup> (dusts) Denmark: 1.0 mg/m <sup>3</sup> (dust and powder) Germany (MAK): 0.1 mg/m <sup>3</sup> (fume), 1 mg/m <sup>3</sup> (dusts and mists)
Zinc	None established	None established	None established
	Otherwise, use genera Not normally needed. Use an appropriate ap	al exhaust ventilation. Maintain airborne cont proved air-purifying resp	significant dusting occurs or fumes are generated. aminant concentrations below guidelines listed above. pirator equipped with HEPA cartridges/canisters where
tion: on: ection:	Use safety glasses. Not normally needed Not normally needed. Not normally needed.	During firing use heari	ing protection.
	NAME Lead Copper	NAME       0.05 mg/m³         Lead       0.05 mg/m³         Copper       0.2 mg/m³ (fume), 1 mg/m³ (dusts and mists)         Zinc       None established         Controls:       Local exhaust ventilati Otherwise, use genera         Protection:       Not normally needed. Use an appropriate app there is the potential fo Use safety glasses. Not normally needed Not normally needed.	NAME       0.05 mg/m³       0.05 mg/m³         Lead       0.05 mg/m³       0.05 mg/m³         Copper       0.2 mg/m³ (fume), 1 mg/m³ (dusts and mists)       0.1 mg/m³ (fume)         Zinc       None established       1 mg/m³ (dusts and mists)         Zinc       None established       None established         Controls:       Local exhaust ventilation is recommended if Otherwise, use general exhaust ventilation.         Protection:       Not normally needed.         Maintain airborne cont Use an appropriate approved air-purifying res there is the potential for exceeding established         Detection:       Use safety glasses.         Not normally needed       Not normally needed.         On:       Not normally needed.         Not normally needed.       Not normally needed.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
Appearance:	Cylindrical projectile –	Physical State:	Solid
	copper colored if copper		
	alloy plated, gray if not		
	plated		
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 °C):	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.Possibility of Hazardous Reactions:Hazardous polymerization will not occurIncompatible Materials:Acids and causticsHazardous Decomposition Products:Metals may liberate hydrogen gas from reaction with acids. Metal oxides, lead<br/>dust/fumeConditions to Avoid:Contact with incompatible materials.

Effects Of Acute Exposure:

#### 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.

	SELECTED COMPONENTS				
PRO	DUCT	Lead	Copper	Zinc	
Inhalation $LC_{50}$	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	375 mg/kg, sc (rabbit)	No data	
Ingestion $LD_{50}$	Ingestion unlikely	No data	3.5 mg/kg, ip (mouse)	No data	
Irritation	Particles generated from firing may be slightly irritating to the eyes	Not irritating	Respiratory irritant	Eye irritant	
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. This product is not known or reported to be mutagenic. Lead has been shown to be Mutagenicity: mutagenic in several in vitro assays. IARC and US EPA list lead and lead compounds as probable human carcinogens Carcinogenicity: (Group 2A) based on sufficient evidence from animal studies and limited evidence from human studies (epidemiology). NTP classifies lead and lead compounds as reasonably anticipated to be human carcinogens.

# 12. 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>Copper:</u> Lead: Zinc:	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. Bluegill sunfish, 48 hr. $LC_{50} = 2-5$ mg/l. Lead is toxic to waterfowl. 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: PERSISTANCE/DEGRADABILITY:	Dissolved lead from degraded bullets may migrate through soil. Not biodegradable. Bullets may fragment and decompose in soil leading to accumulation of lead.

#### **13. DISPOSAL CONSIDERATIONS**

**BIOACCUMULATION:** 

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.

No data

None

#### **14. TRANSPORT INFORMATION**

Regulatory Information for US DOT, IATA, IMO, and AD			
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: No information Marine Pollutant:

#### 15. **REGULATORY INFORMATION**

#### **US FEDERAL**

The compo	The components of this product are listed on the Toxic Substance Control Act inventory.				
Lead, R.Q.	Lead, R.Q. = 10 lbs. (No reporting is required if diameter of the pieces of metal is equal to or exceeds				
100 micror	100 micrometers (0.004 inches)).				
Lead and L	Lead and Lead compounds				
<u>Health</u> :	Acute – No	<i><u>Fire</u>:</i> No	Reactivity: None	Release of Pressure: No	
	Chronic - Yes				
None of the	None of the components of this product are listed.				
	Lead, R.Q. 100 micror Lead and I <u>Health</u> :	Lead, R.Q. = 10 lbs. (No reportir 100 micrometers (0.004 inches)) Lead and Lead compounds <u>Health</u> : Acute – No Chronic - Yes	Lead, R.Q. = 10 lbs. (No reporting is required if diamet 100 micrometers (0.004 inches)).         Lead and Lead compounds <u>Health</u> :       Acute – No         Chronic - Yes	Lead, R.Q. = 10 lbs. (No reporting is required if diameter of the pieces of n 100 micrometers (0.004 inches)).         Lead and Lead compounds <u>Health</u> :       Acute – No         Chronic - Yes	

\*RQ = Reportable Quantity

### STATE RIGHT-TO-KNOW STATUS

Component	California	New Jersey	Pennsylvania	Massachusetts	Michigan
Lead	Х	Х	Х	Х	Х
Copper/Zinc Alloy	Not listed	Not listed	Not listed	Not listed	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**

Carcinogenicity Category 1A Reproductive Toxicity Category 1A STOT RE Category 2 Aquatic Environment, Chronic II

#### EUROPEAN REGULATIONS

#### All chemical components listed on EINECS

Lead metal is included on the REACH Candidate List of Substances of Very High Concern for Authorisation (Toxic to Reproduction, Category 1A; Article 57c)

Restrictions on use: this substance is subject to REACH restrictions according to:

Annex XVII, Entry No. 30 (regarding supply to the general public)

• REACH Annex XVII, Entry No. 63.

#### 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
IDL:	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:05DATE:02/28/2019PREPARED BY:Olin Winchester, LLC

OTHER: Additional information available from: <u>www.winchester.com</u>

<u>NOTICE:</u> 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.