



Olin MSDS No.: 00090.0001 Revised Date: 1/1/11 Revision No.: 10 Supercedes: 1/1/10

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** WIN MAG BULLETS **Chemical Name:** Mixture - Metal Alloy Synonyms: Centerfire bullets **Chemical Family:** Metal mixture

Formula: Not applicable - mixture

**Product Use/ Description:** Projectile

**COMPANY ADDRESS** MSDS Control Group **TECHNICAL** 

Olin Corporation – Winchester

Division, Inc.

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

**EMERGENCY TELEPHONE** 

NUMBER: 618-258-2111

#### 2. **COMPOSITION / INFORMATION ON INGREDIENTS**

CAS Number	Components	% By Weight	EINECS/ ELINCS #	EU Classification	
				Symbol	R-Phrase
Mixture	Bronze (CDA 226 Alloy)	5 - 10	Not applicable	None	None
7439-92-1	Lead	60 - 100	231-100-4	T, N*	R1-33-50/53-62

**INFORMATION:** 

618-258-3507

**OSHA REGULATORY STATUS:** Dust or fume is toxic, carcinogen, irritant, reproductive and developmental toxin

# In solid form, this material is not hazardous. Dust and fumes are hazardous materials.

### 3. HAZARDS IDENTIFICATION

WARNING!

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

HAZARD RATINGS (for dust or fume)

Degree of hazard (0 = low, 4 = extreme)

Hazardous Materials Identification System (HMIS) for dust or fume:

Health: 0

Flammability: 0

Physical Hazard:

None

National Fire Protection Association (NFPA) Mixture. Not rated.

HUMAN THRESHOLD RESPONSE DATA

Odor Threshold: Unknown **Irritation Threshold:** Unknown

The IDLH for this product is not known. The IDLH for lead is 100 Immediately Dangerous to Life or Health (IDLH) Value(s):

 $mq/m^3$ .

<sup>\*</sup>This material is not listed in Annex 1 of Directive 88/379/EEC. Olin has classified the material according to the conventional method based upon information from similar materials.



# POTENTIAL HEALTH EFFECTS

This product is composed of a finished metal alloy solid. Therefore, under normal handling of this product, no exposure to any harmful materials will occur.

When the product 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.

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

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.

POTENTIAL ENVIRONMENTAL EFFECTS: Product has not been tested for environmental properties. Lead has been shown

to be toxic to aquatic species.

#### **FIRST AID MEASURES** 4.

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.

#### 5. **FIRE FIGHTING MEASURES**

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

**EXTINGUISHING MEDIA:** Not Applicable - Choose extinguishing media suitable for surrounding materials. SPECIAL FIREFIGHTING PROCEDURES: In case of fire, use normal fire fighting equipment. Response to this material

requires the use of a self-contained breathing apparatus (SCBA).

#### 6. **ACCIDENTAL RELEASE MEASURES**

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

This material is heavier than and insoluble in water. Do not place spill materials back in their original containers. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area using soap solution and flush with large amounts of water. Use clean shovel or broom to pick up and place in clean container for disposal.

None known

### HANDLING AND STORAGE 7.

**HANDLING**: No special requirements STORAGE: No special requirements Shelf Life Limitations: Not known

Incompatible Materials for Packaging:

Incompatible Materials for Storage or Transport: CONDITIONS TO AVOID:

Acids and caustics None known.



# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
Mixture	Bronze (CDA 226 Alloy)	None established	None established	None established
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>

ENGINEERING CONTROLS: Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated.

Otherwise, use general exhaust ventilation. Use hearing protection.

EYE / FACE PROTECTION: Not normally needed. SKIN PROTECTION: Not normally needed

RESPIRATORY PROTECTION: Respiratory protection not normally needed.

GENERAL HYGIENE: Wash hands thoroughly after use.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
Appearance:	Appearance: Cylindrical projectile – silver		Not applicable
colored if nickel plated,		Vapor Density (air = 1):	
	copper colored if copper		
	plated, gray if not plated		
Odor:	None	Boiling Point (°F):	Not applicable
Molecular Weight:	Not applicable - Mixture	Melting point:	Not applicable
Physical State:	Solid	Specific gravity (g/cc):	Not applicable
pH:	Not applicable	Bulk Density	Not applicable
Vapor Pressure (mm Hg):	Not applicable	Viscosity (cps):	Not applicable
Vapor Density	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.

MATERIALS TO AVOID: Acids and caustics

HAZARDOUS DECOMPOSITION PRODUCTS: Metals may liberate hydrogen gas from reaction with acids. Metal oxides, lead

dust/fume

HAZARDOUS POLYMERIZATION: Will not occur.

OTHER: None

# 11. TOXICOLOGICAL INFORMATION

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

# ACUTE ANIMAL TOXICITY DATA:

For Product:		For Components	
		Bronze Alloy	Lead
Oral LD <sub>50</sub>	Not applicable for product	No data	No data
Dermal LD <sub>50</sub>	Not applicable for product	No data	No data
Inhalation LC <sub>50</sub>	Not applicable for product. Particles generated from firing may be slightly toxic.	No data	No data
Irritation	Not a skin or eye irritant as a loaded round.	No data	Not irritating

<u>SUBCHRONIC/ CHRONIC TOXICITY:</u> Lead has caused blood, kidney and nervous system damage in laboratory animals.





<u>CARCINOGENICITY:</u> The International Agency for Research on Cancer (IARC) lists lead as possibly

carcinogenic to humans, group 2B. In laboratory animal studies, chronic exposure to high concentrations of nickel has caused an increase in lung and nasal tumors. Arsenic is listed as a known human carcinogen by IARC (Group 1), OSHA, NTP

and EPA.

MUTAGENICITY:

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

mutagenic in several in vitro assays.

REPRODUCTIVE, TERATOGENICITY, OR

**DEVELOPMENTAL EFFECTS:** 

**NEUROLOGICAL EFFECTS:** 

This product is not known or reported to cause reproductive or developmental effects. Lead has been shown to affect fetal development including birth defects and reduce male reproductive function in laboratory animals.

This product is not known or reported to cause neurological effects. Lead has caused peripheral and central nervous system damage and behavioral effects in

laboratory animals.

INTERACTIONS WITH OTHER CHEMICALS

WHICH ENHANCE TOXICITY:

None known or reported.

### 12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data is available on this product. Individual constituents are as follows:

Lead: LC 50 (48 hrs.) to bluegill (Lepomis macrochirus) is reported to be 2-5 mg/l. Lead is toxic to waterfowl.

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 treatment, storage and disposal for hazardous and nonhazardous wastes.

# 14. TRANSPORT INFORMATION

	U.S. DOT	RID/ADR	IMDG	IATA	IMO	Canada TDG
PROPER SHIPPING NAME:			Not reg	gulated		
HAZARD CLASS:						
UN NO.:						
PACKING GROUP:						
HAZARD LABEL/PLACARD:						
REPORTABLE QUANTITY:						
SPECIAL COMMENTS:						

# 15. REGULATORY INFORMATION

### US FEDERAL

TSCA	The components of this product are listed on the Toxic Substance Control Act inventory.					
CERCLA:	Lead, R.Q. = 10 lbs (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).					
SARA 313:	Lead	Lead				
SARA 313 Hazard Class:	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.					

RQ = Reportable Quantity

# STATE RIGHT-TO-KNOW STATUS

Component	*CA Prop. 65	New Jersey	Pennsylvania	Massachusetts	Michigan
Lead	X	Х	X	X	X
Bronze alloy	Not listed	Not listed	Not listed	Not listed	Not listed

<sup>\* &</sup>quot;WARNING: This product contains detectable amounts of a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm."





# **EUROPEAN REGULATIONS**

This material in its solid form is not required to be labeled under EC regulations.

German WGK Classification: Not known

CANADIAN REGULATIONS

DSL LIST: The components of this product are on the DSL or are exempt from reporting under the New Substances Notification

Regulations.

IDL: Lead

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

# 16. OTHER INFORMATION

REVISIONS: 7/1/09 – changed emergency contact number and mailing address; 1/1/11 - review

PREPARED BY: Olin Corporation

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

<u>NOTICE:</u> THE INFORMATION IN THIS MSDS 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.