



NUMBER:

618-258-2111

 Olin MSDS No.:
 00067.0001
 Revision Date:
 1/1/11

 Revision No.:
 14
 Supercedes:
 1/1/10

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: DUMMY SMALL CALIBER AMMUNITION

Chemical Name: Mixture – Metal Allov

Synonyms: Centerfire, rimfire, and shotshell dummy rounds

Chemical Family: Metal mixture

Formula: Not applicable - mixture

Product Use/ Description: Ammunition

COMPANY ADDRESS MSDS Control Group TECHNICAL EMERGENCY TELEPHONE

Olin Corporation – Winchester INFORMATION: Division, Inc. 618-258-3507

600 Powder Mill Road East Alton, IL 62024

East Alton, IL 62024 www.winchester.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Components	% By Weight	EINECS/ ELINCS #	EU Classification	
				Symbol	R-Phrase
7439-89-6	Iron	20 - 30	231-096-4	None	None
7440-50-8	Copper	45 - 80	231-159-6	None	None
7440-66-6	Zinc	15 - 35	231-175-3	F (as dust or powder)	R 15-17

OSHA REGULATORY STATUS: Not hazardous.

3. HAZARDS IDENTIFICATION

DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER.

HAZARD RATINGS (for dust or fume) Degree of hazard (0 = low, 4 = extreme)

Hazardous Materials Identification System (HMIS) 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

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

mg/m³.

POTENTIAL HEALTH EFFECTS

This product is composed of a finished metal alloy. 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>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 a loaded round 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.

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

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: If exposed to fume or particles, wash skin with plenty of soap and water.

INHALATION: If symptoms of lung irritation occur from breathing particles or fumes, (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	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)	Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

EXTINGUISHING MEDIA: Choose extinguishing media suitable for surrounding materials.

SPECIAL FIREFIGHTING PROCEDURES: In case of fire, use normal fire fighting equipment.

6. ACCIDENTAL RELEASE MEASURES

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

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.

7. HANDLING AND STORAGE

HANDLING:No special requirementsSTORAGE:No special requirements

Shelf Life Limitations: Indefinite

Incompatible Materials for Packaging: None known

Incompatible Materials for Storage or Transport: Acids

CONDITIONS TO AVOID: None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7440-50-8	Copper	0.2 mg/m ³ (fume), 1 mg/m ³ (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)
7439-89-6	Iron	None established	None established	None established
7440-66-6	Zinc	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. Use hearing protection.

EYE / FACE PROTECTION: Not normally needed



SKIN PROTECTION: Not normally needed

RESPIRATORY PROTECTION: Respiratory protection not normally needed.

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:	Finished cartridge	Vapor Density (air = 1):	Not applicable
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

HAZARDOUS DECOMPOSITION PRODUCTS: None. Reaction with acids may liberate explosive hydrogen gas.

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			
		Copper	Iron	Zinc	
Oral LD ₅₀	Not applicable for product	3.5 mg/kg (mouse, intraperitoneal)	30 g/kg (rat)	No data	
Dermal LD ₅₀	Not applicable for product	375 mg/kg (rabbit, subcutaneous)	No data	No data	
Inhalation LC ₅₀	Not applicable for product. Particles generated from firing may be slightly toxic.	No data	No data	No data	
Irritation	Not a skin or eye irritant as a solid.	Respiratory irritant	Eye irritant	Eye irritant	

<u>SUBCHRONIC/ CHRONIC TOXICITY:</u> None known or expected.

<u>CARCINOGENICITY:</u> This product is not known or reported to be carcinogenic by IARC OSHA ,NTP, or

EPA

MUTAGENICITY: This product is not known or reported to be mutagenic.

REPRODUCTIVE, TERATOGENICITY, OR This product is not known or reported to cause reproductive or developmental

<u>DEVELOPMENTAL EFFECTS:</u> effects.

NEUROLOGICAL EFFECTS: This product is not known or reported to cause neurological effects

<u>INTERACTIONS WITH OTHER CHEMICALS</u> None known or reported.

WHICH ENHANCE TOXICITY:



12. **ECOLOGICAL INFORMATION**

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

Copper: The toxicity of copper to aquatic organisms varies significantly not only with the species, but also with the physical and chemical characteristics of the water, such as its temperature, hardness, turbidity and carbon dioxide content. Copper concentration varying from 0.1 to 1.0 mg/l have been found by various investigators 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>Zinc</u>: The following concentrations of zinc have been reported as lethal to fish:

Rainbow trout fingerlings: 0.13 mg/l, 12 – 24 hours

Bluegill sunfish: $6 \text{ hr TLM} = 1.9 - 3.6 \text{ mg/l} \text{ (soft water, } 30^{\circ}\text{C)}$

Rainbow trout: 4 mg/l (hard water) 3 days Sticklebacks: 1 mg/l (soft water) 24 hrs

The presence of copper appears to have a synergistic effect on the toxicity of zinc towards fish.

MOBILITY: No data

PERSISTANCE/DEGRADABILITY: Not biodegradable.

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:	This material is not regulated as a DOT hazardous material.					
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:		Copper, R.Q.= 5000 lbs.; Zinc, R.Q. = 1000 lbs (No reporting is required if diameter of the pieces of				
	metal is equal to or ext	metal is equal to or exceeds 100 micrometers (0.004 inches).				
SARA 313:	Copper, Zinc (fume or	Copper, Zinc (fume or dust)				
SARA 313 Hazard Class:	Health: Acute – No Fire: No Reactivity: None Release of Pressure: No 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
Copper	Not listed	X	X	X	X
Zinc	Not listed	Χ	Not listed	Χ	Χ

EUROPEAN REGULATIONS

This material in its massive 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: Copper

WHMIS: This product is considered to be a manufactured article and therefore not subject to WHMIS requirements.

16. OTHER INFORMATION

REVISIONS: New International format, toxicology review – 1/1/03; 7/1/09 – changed emergency contract 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.