

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, FAIL SAFE**
CAS Number: Mixture – Metal Alloy
Synonyms: None
Product Use: Projectile
U.N. Number: None
U.N. Dangerous Goods Class: Not regulated
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)

Olin SDS No.: 00088.0001

Issue Date: 04/29/2015

Revision Date: 01/31/2017

Revision No.: 02

2. HAZARDS IDENTIFICATION

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

US DOT SYMBOLS

Not Regulated

CANADA (WHMIS) SYMBOLS

This Product is not subject to WHMIS

GHS HAZARD SYMBOLS





<u>GHS Classifications:</u>	STOT RE Category 2 Reproductive Toxicity Category 2 Aquatic Environment, Chronic II
<u>Signal Word:</u>	Warning
<u>Hazard Statements :</u>	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
<u>Target organs:</u>	Nervous, renal and hematopoietic systems
<u>Precautionary Statements:</u>	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
<u>GHS Pictograms:</u>	Specific Target Organ Toxicity; Pictogram Code: GHS08 Environment; Pictogram Code: GHS09
<u>EU Classifications:</u>	
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 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 this harmful substance:

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 these bullets would be sufficient to cause any of these effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% By Weight	CAS Number	EINECS/ ELINCS #
Lead	40 - 70	7439-92-1	231-100-4
Bronze (CDA 226 Alloy)	10 – 30	Mixture	Mixture
Iron	5 – 10	7439-89-6	231-096-4

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 Physicians:

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)	Not applicable

Unusual Fire and Explosion Hazards:

None

Extinguishing Media:

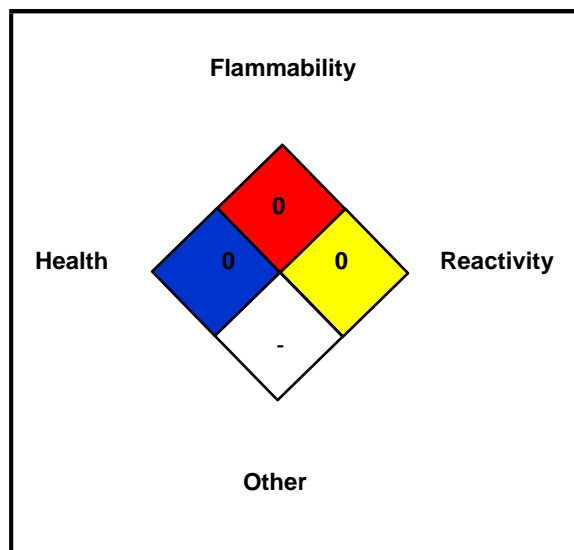
Not Applicable - Choose extinguishing media suitable for surrounding materials.

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).

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

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HEALTH HAZARD (BLUE)		0*
FLAMMABILITY HAZARD (RED)		0
PHYSICAL HAZARD (YELLOW)		0
PROTECTIVE EQUIPMENT		
EYES	PPE CODE	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. 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:

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

CAS #	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7439-92-1	Lead	0.05 mg/m ³	0.05 mg/m ³	Austria, Denmark, Germany, Sweden, Switzerland: 0.1 mg/m ³ Norway, Poland: 0.05 mg/m ³
Mixture	Bronze (CDA 226 Alloy)	None established	None established	None established
7439-89-6	Iron	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.

Eye/Face Protection:

Use safety glasses.

Hand Protection:

Not normally needed

Skin Protection:

Not normally needed.

Hearing Protection:

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
<i>Appearance:</i>	Cylindrical projectile – gray	<i>Physical State:</i>	Solid
<i>Odor:</i>	None	<i>Odor Threshold:</i>	None
<i>Boiling Point (°F):</i>	Not applicable	<i>Melting point:</i>	Not applicable
<i>Vapor Pressure (mm Hg):</i>	Not applicable	<i>Freezing point:</i>	Not applicable
<i>Vapor Density (air = 1):</i>	Not applicable	<i>Bulk Density:</i>	Not applicable
<i>Specific gravity (g/cc):</i>	Not applicable	<i>Viscosity (cps):</i>	Not applicable
<i>pH:</i>	Not applicable	<i>Decomposition Temperature:</i>	Not applicable
<i>Solubility in Water (20 °C):</i>	Insoluble	<i>Evaporation Rate:</i>	Not applicable
<i>Volatiles, Percent by volume:</i>	Not applicable	<i>Octanol/water partition coefficient:</i>	Not applicable

10. STABILITY AND REACTIVITY

Stability:

Stable under normal temperatures and pressure.

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur

Incompatible Materials:

Acids and caustics

Hazardous Decomposition Products:

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

Conditions to Avoid:

Contact with incompatible materials.

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.

Effects Of Acute Exposure:

PRODUCT		SELECTED COMPONENTS		
		Lead	Bronze	Iron
Inhalation LC ₅₀	Particles generated from firing may be slightly toxic	No data	No data	No data
Skin Contact LD ₅₀	Skin absorption unlikely	No data	No data	No data
Ingestion LD ₅₀	Ingestion unlikely	No data	No data	30 g/kg (rat)
Irritation	Particles generated from firing may be slightly irritating to the eyes	Not irritating	No data	Eye irritant
Sensitization	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.

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:

Lead:

Bluegill sunfish, 48 hr. LC₅₀ = 2-5 mg/l. Lead is toxic to waterfowl.

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 INFORMATIONRegulatory 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 INFORMATIONUS 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 and Lead compounds				
SARA 311/312:	<u>Health:</u>	Acute – No Chronic - Yes	<u>Fire:</u> No	<u>Reactivity:</u> None	<u>Release of Pressure:</u> No
SARA 302 EHS List:	None of the components of this product are listed.				

*RQ = Reportable Quantity

STATE RIGHT-TO-KNOW STATUS

Component	California	New Jersey	Pennsylvania	Massachusetts	Michigan
Lead	X	X	X	X	X
Bronze (CDA 226 Alloy)	Not listed	Not listed	Not listed	Not listed	Not listed
Iron	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

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

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: 02

PREPARED BY: Olin 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.