



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: CARTRIDGES - RIMFIRE

CAS Number: Mixture – Metal Alloy

Synonyms: Rimfire Brands: Super-X, Supreme, Varmint HV, Varmint HE, Defender, USA Brand, Hyper Speed,

Dynapoint, M22, 222,333, 525, 555, T-22, Wildcat, Expediter, Silhouette, Super Speed, Aussie Ammo, Subsonic, Power-Point, Xpert, M-22 Subsonic, Super-X Subsonic, Super Suppressed, Varmit X Lead-Free, Varmint LF Polymer Tip NTX, X22LRHLF-22LR Tin 26 grn.HP, X22Mhlf-22WMR Tin Core JHP,

USA Game & Target, Universal.

Rimfire Bullet Names: Polymer Tip, VMax, XTP, Jacketed Hollow Point, JHP, FMJ, Dynapoint, DP, Lead Round Nose, LRN, LRN Copper Plated, LRN Black Copper Plated, LRN Lubaloy Plated, Lead Hollow Point, LHP, LHP Copper Plated, Power-Point, PP, PP Copper Plated, Fragmenting Hollow

Point, FHP, FHP Copper Plated, Lead Shot, CB, T-22.

Rimfire Calibers: 17 Hornady Magnum Rimfire (17 HMR), 17 Winchester Super Magnum (17 WSM), 22 Long (22L), 22 Long Rifle (22LR), 22 Short (22S), 22 Winchester Rimfire (22WRF), 22 Winchester

Magnum Rimfire (22WMR), 22 Mag.

Rimfire Proof Loads

Product Use: Rimfire Rifle and Pistol Loaded Ammunition

U.N. Number: UN 0012 U.N. Dangerous Goods Explosive, 1.4S

Class

Manufacturer/Responsible

Party:

Olin Winchester, LLC

Manufacturers' Address: 600 Powder Mill Road, East Alton, IL 62024 www.winchester.com

Emergency Telephone US/Canada: 1-800-424-9300 Outside US/Canada: 703-527-3887

SDS Control Group: 618-258-3507 (Technical Information Only)

Olin SDS No.: 00051,0001 | Issue Date: 6/1/15

Revision Date: 02/28/2019

Revision No.: 5

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: EXPLOSIVE. KEEP AWAY FROM HEAT. DO NOT SUBJECT TO MECHANICAL SHOCK. PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT TAKE INTERNALLY.

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US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

GHS HAZARD SYMBOLS

This Product is not subject to WHMIS

Class 6 Explosive





GHS Classifications: Carcinogenicity Category 1A

Reproductive Toxicity Category 1A

Explosive Division 1.4 STOT RE Category 1

Aquatic Environment, Chronic II

Signal Word: Danger

<u>Hazard Statements</u>: H204: Fire or projection hazard

H350: May cause cancer

H360: May damage fertility or the unborn child H362: May cause harm to breast-fed children

H372: Causes damage to nervous system, kidney, and hematopoietic system through prolonged

or repeated exposure

H411: Toxic to aquatic life with long lasting effects

<u>Target organs:</u> Nervous, renal and hematopoietic systems

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<u>Precautionary Statements:</u> P102: Keep out of reach of children

P210: Keep away from heat/sparks/open flame/hot surfaces

P250: Do not subject to shock/friction

P260: Do not breathe fumes

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 clothing/eye protection/hearing protection

P370+P380: In case of fire: Evacuate area

P374: Fight fire with normal precautions from a reasonable distance

P410: Store in accordance with local regulations

P501: Dispose of contents in accordance with local regulations

GHS Pictograms: Explosive; Pictogram: exploding bomb

Specific Target Organ Toxicity; Pictogram Code: GHS08

Environment; Pictogram Code: GHS09

EU Classifications:

Hazard Symbols E, T, N

Risk Phrases R2: Risk of explosion by shock, friction, fire or other sources of ignition

R45 (Category 1): May cause cancer

R48: Danger of serious damage to health by prolonged exposure

R60/61 (Category 1): May impair fertility or cause harm to the unborn child

R63: Possible risk of harm to the unborn child R64: May cause harm to breast-fed children

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

S15: Keep away from heat

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

S23: Do not breathe fumes S39: Wear eye/face protection

S43: In case of fire, use Class A equipment 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 cartridge which contains the various components completely sealed within. 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>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. 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 a loaded round would be sufficient to cause any of these effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% By Weight	CAS Number	EINECS/ ELINCS #
Lead	20- 80	7439-92-1	231-100-4
Copper	20 - 45	7439-92-1	231-159-6
Zinc	5 - 15	7440-66-6	231-175-3
Tin	0 – 70	7440-31-5	231-141-8
Nitrocellulose	1 -15	9004-70-0	Not listed
Lead Styphnate	0.1 - 1	15245-44-0	239-290-0

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.

<u>Inhalation:</u> 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	Yes	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)	Explosive

Unusal Fire and Explosion Hazards:

Extinguishing Media:

Special Firefighting Procedures:

Possible projection hazard.

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used.

Do not fight fire when fire reaches cargo. Cargo may explode.

Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. Structural firefighters' protective clothing will only provide limited protection.

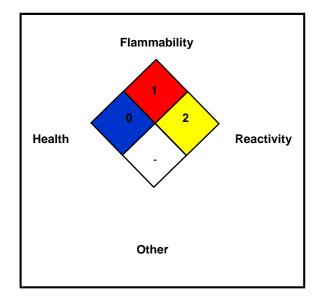
Isolate materials not yet involved in the fire. Move containers from fire area if possible; otherwise, cool with carefully applied water spray.

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



HEALTI	H HAZAR	D (BLUE)		0*
FLAMM	ABILITY	HAZARD (RED)		1
PHYSIC	AL HAZ	ARD (YELLOW)		2
PROTECTIVE EQUIPMENT				
EYES	PPE CODE	RESPIRATORY	HEAR	RING
A See Sect 8 See Sect				

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ACCIDENTAL RELEASE MEASURES 6.

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. Spill Response:

Accidental Release Procedures: Spills of this material should be handled carefully. Do not subject materials to mechanical

shock. Collect material and place 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 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 accordance with local regulations. Store in original containers in a cool,

dry location away from Acids, Class A & B explosives, strong oxidizers, and

caustics. Avoid mechanical impact or shock and electrical discharge.

EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

Control parameters:

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7440-50-8	Copper	0.2 mg/m³ (fume), 1 mg/m³ (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)
7439-92-1	Lead	0.05 mg/m ³	0.05 mg/m ³	Austria, Denmark, Germany, Sweden, Switzerland: 0.1 mg/m³ Norway, Poland: 0.05 mg/m³
7440-66-6	Zinc	None established	None established	None established
9004-70-0	Nitrocellulose	None established	None established	None established
55-63-0	Lead Styphnate	None established	None established	None established
7440-31-5	Tin	2 mg/m ³	2 mg/m ³	U.K. (LTEL): 5 mg/m ³ Austria & Germany (MAK), Belgium, Finland, Denmark, The Netherlands, Poland, Switzerland: 2 mg/m ³ Hungary, Norway: 1 mg/m ³

Engineering Controls: Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation.

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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.

<u>Eye/Face Protection:</u>
<u>Hand Protection:</u>

Skin Protection:

Use safety glasses.

Not normally needed.

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
Appearance:	Cylindrical brass cartridge	Physical State:	Solid
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
рН:	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.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur

Incompatible Materials: Acids, Class A & B explosives, strong oxidizers, and caustics

<u>Hazardous Decomposition Products:</u> Nitrogen oxides, carbon monoxide, lead oxides, carbon dioxide, lead

dust/fume

<u>Conditions to Avoid:</u> Contact with incompatible materials. Physical damage to containers;

cartridges may detonate if case is punctured.

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		COMPONENTS					
		Copper	Lead	Nitrocellulose	Zinc	Lead Styphnate	
Inhalation LC ₅₀	Particles generated from firing may be slightly toxic	No data	No data	No data	No data	No data	
Skin Contact LD ₅₀	Skin absorption unlikely	375 mg/kg (rabbit, subcutaneous)	No data	No data	No data	No data	
Ingestion LD ₅₀	Ingestion unlikely	3.5 mg/kg (mouse, intraperitoneal)	No data	> 5 g/kg (rat)	No data	No data	
Irritation	Particles generated from firing may be slightly irritating to the eyes	Respiratory irritant	Not irritating	No data	Eye irritant	No data	
Sensitization	Sensitization to this Product has not been reported	No data	No data	No data	No data	No data	

Other Adverse Effects:

<u>Target Organ Toxicity:</u> No reported target organ toxicity from this product. Lead has caused nervous

system, kidney and hematopoietic system damage in humans and laboratory

animals.

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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.

<u>Teratogenicity (Birth Defects):</u> This product is not known or reported to cause developmental toxicity. Lead has

been shown to affect fetal development including birth defects.

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

mutagenic in several in vitro assays.

<u>Carcinogenicity:</u> IARC and US EPA list lead and lead compounds as probable human carcinogens

(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:

Copper: 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.

<u>Lead:</u> LC 50 (48 hrs.) to bluegill is reported to be 2-5 mg/l. Lead is toxic to

waterfowl.

Nitrocellulose: $LC_{50} > 1000 \text{ mg/l}$ to fish, invertebrates, and algae.

Zinc: 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: 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 INFORMATION

Regulatory Information for US DOT, IATA, IMO, and ADR:

<u>Proper Shipping Name:</u> Cartridges, small arms (other than blanks)

Hazard Class Number and Description: Explosive 1.4S

UN Identification Number: UN 0012

Packing Group: PGII

<u>DOT Label(s) Required:</u> Label Not Required for ground shipment.

Marine Pollutant: None of the ingredients are classified by the DOT as a Marine Pollutant (as

defined by 49 CFR 172.101, Appendix B)

Additional Information:

North American Emergency Response Guidebook Number: 114 Most Current Version is 2012

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING REGULATIONS: This product is classified as dangerous goods under 49 CFR 172.101. Note: May be reclassified domestically as an ORM-D or Limited Quantity if packaged in accordance with 49 CFR 173.63.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is classified as Dangerous Goods (If packaged appropriately this product may ship as a Limited Quantity).

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is classified as Dangerous Goods.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is classified as Dangerous Goods (If packaged appropriately this product may ship as a Limited Quantity).

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is classified by the United Nations Economic Commission for Europe to be dangerous goods. (If packaged appropriately this product may ship as a Limited Quantity).

15. REGULATORY INFORMATION

US FEDERAL

TSCA	The comp	The components of this product are listed on the Toxic Substance Control Act inventory.					
CERCLA:		Copper, R.Q.* = 5000 lbs.; Lead, R.Q. = 10 lbs.; Zinc, R.Q. = 1000 lbs. (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).					
SARA 313:	Copper, Le	Copper, Lead and Lead compounds, Zinc (fume or dust)					
SARA 311/312:	<u>Health</u> :	Health:Acute – No Chronic - NoFire: NoReactivity: YesRelease of Pressure: No					
SARA 302 EHS List:	None of th	None of the components of this product are listed.					

^{*}RQ = Reportable Quantity

STATE RIGHT-TO-KNOW STATUS

Component	California	New Jersey	Pennsylvania	Massachusetts	Michigan
Copper	Not listed	Х	X	X	Х
Lead	X	X	X	X	Х
Zinc	Not listed	X	Not listed	Х	Х
Nitrocellulose	Not listed	Х	X	X	Not listed
Lead styphnate	X	Not listed	Not listed	X	Not listed

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

Warning! This product contains det ec t ab I e am o un t s o f a c hem ic a I known to the State of California to cause cancer and/ or b i r t h def ec t s or other reproductive harm.

GHS CLASSIFICATION

Carcinogenicity Category 1A Reproductive Toxicity Category 1A

Explosive Division 1.4 STOT RE Category 1 Aquatic Environment, Chronic II

EUROPEAN REGULATIONS

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.

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Hazard Classification

Danger Symbols: E, T, N

Risk Phrases: R2, R48, R60, R63, R51/53

Safety Phrases: S2, S15, 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, Copper

CEPA PRIORITIES LIST: None of the components of this product are on the CEPA First Priorities Substances List.

WHMIS: This product is not subject to WHMIS. It is regulated as a Class 6 Explosive in Canada.

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: 05

DATE: 02/28/2019

PREPARED BY: Olin Winchester, LLC

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

<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.