

SAFETY DATA SHEET**1. PRODUCT IDENTIFICATION**

Product Name	Centerfire Rifle Ammunition – Lead Free
Synonyms	Cartridges, Small Arms Ammunition
Product Use	Firearm Ammunition
Manufacturer's Name	Weatherby, Inc.
Manufacturer's Address	1550 Yellowtail Dr., Sheridan, WY 82801
Business Phone	(307) 675-7840
Emergency Phone (CHEMTRC)	(800) 424-9300

2. HAZARD(S) IDENTIFICATION

US DOT SYMBOLS



GHS HAZARD SYMBOLS



CANADA (WHMIS) SYMBOLS

Product not subject to WHMIS
Class 6 Explosive

HAZARD CLASSIFICATIONS (US)

Explosive Division 1.4

Specific Target Organ Toxicity – None

SINGLE WORD**DANGER**HAZARD STATEMENTS

H204: Fire or projection hazard

PRECAUTIONARY STATEMENTS

P102: Keep out of reach of children

P210: Keep away from heat/sparks/open flame/hot surfaces – No smoking

P250: Do not subject to shock/friction

P280: Wear protective clothing, eye protection and hearing protection

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

CLASSIFICATIONS (EU)

Hazard Symbols E

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

S2: Keep out of reach of children

S15: Keep away from heat – No smoking



S39: Wear eye/face protection

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	% By Weight	CAS Number	EC Number
Copper	30 - 85	7440-50-8	231-159-6
Nickel	0 - 2	7440-02-0	231-111-4
Zinc	4 - 28	7440-66-6	231-175-3
Nitrocellulose	11 - 28	9004-70-0	Not Listed
Nitroglycerin	0 - 4	55-63-0	200-240-8
Lead Styphnate	0 - 1	15245-44-0	239-290-0
Aluminum	0 - 3	7429-90-5	231-072-3

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 irritation develops, call a physician immediately.

SKIN CONTACT

May cause allergic skin reaction. Wash affected skin thoroughly with soap and water. If irritation develops, call a physician.

INHALATION

If signs of lung irritation occur including coughing, wheezing or breathing difficulty, remove victim from exposure area to fresh air immediately. If respiration has stopped administer Cardiopulmonary Resuscitation (CPR) and seek medical attention immediately.

INGESTION

If ingested, call a physician immediately.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

There are no medical conditions known to be aggravated by exposure to this product in its solid form.

5. FIRE-FIGHTING MEASURES

HMIS Rating System Health: 0 Flammability: 1 Reactivity: 2 Other: N/A

Hazard Scale 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

PROPERTIES

Explosive; fire or projection hazard

Not considered flammable, but may burn at high temperatures. Do not expose to heat or ignition sources as this could cause an explosion. If heated to 200°C (392°F) may explode.

EXTINGUISHING MEDIA

Flood fire with water. If water is not available, use carbon dioxide, dry chemical or earth.

FIRE-FIGHTING INSTRUCTIONS

Evacuate area immediately. Deluge area with water. Wear full fire-fighting protective gear including but not limited to: impervious boots, gloves, hard hat, chemically impermeable suit, face shield or SCBA to protect from fragments.

6. ACCIDENTAL RELEASE MEASURES

Spills will not normally require emergency response. However, spills of this material should be handled carefully as improper clean-up could result in fire or explosion. Only use non-spark, non-impact tools/methods when cleaning up a



spill. Do not subject the spilled material to open flame, static discharge, friction, shock, excessive heat, or mechanical impact. If spill is large or other assistance is required, call CHEMTREC at (800) 424-9300.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Handle with care. Avoid striking the primer or crushing the rounds. Ammunition should stay in the manufacturer packaging while transferring. Avoid breathing dust or fume. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove ammunition from service if any of the following conditions have occurred: corrosion, physical damage, exposure to oil or spray type lubricants.

CONDITIONS FOR SAFE STORAGE

Store in a cool, dry, well-ventilated place. Do not expose to excessive heat, flame or other sources of ignition – No Smoking. Avoid mechanical shock and electrical discharge. This product may not be stored with acids, strong oxidizer or caustics.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	CAS Number	ACGIH TLV	OSHA PEL	INTERNATIONAL OEL
Copper	7440-50-8	0.2 mg/m ³ (fume), 1 mg/m ³ (dusts and mists)	0.1 mg/m ³ (fume) 1 mg/m ³ (dusts and mists)	Austria: 0.2mg/m ³ (fumes), 1 mg/m ³ (dusts) France, Sweden, Spain, United Kingdom, Poland: 1 mg/m ³ Germany (MAK): 0.1 mg/m ³ (fume), 1 mg/m ³ (dusts/mists) New Zealand: 1 mg/m ³ Alberta, Northwest Territories, Ontario, Quebec, Saskatchewan: 1 mg/m ³ , British Columbia, Manitoba, Newfoundland & Labrador: 0.2 mg/m ³ Mexico: 1 mg/m ³ Australia (dusts/mists): 1 mg/m ³ , Australia (fume): 0.2 mg/m ³ South Africa: 0.2 mg/m ³ Namibia: 1 mg/m ³ Zambia: 1.75 mg/m ³
Nickel	7440-02-0	None established	1 mg/m ³	Finland: 0.1 mg/m ³ Germany: 0.006 mg/m ³ Alberta, Manitoba, Newfoundland & Labrador, Saskatchewan: 1.5 mg/m ³ , British Columbia: 0.05 mg/m ³ , Northwest Territories: 1 mg/m ³ , Ontario, Quebec: 1 mg/m ³ Mexico: 1 mg/m ³ Brazil: 0.28 mg/m ³ Japan: 1 mg/m ³ Australia: 1 mg/m ³ South Africa: 0.05 mg/m ³ Namibia: 0.1 mg/m ³
Zinc	7440-66-6	None established	None established	None established
Nitrocellulose	9004-70-0	None established	None established	None established
Nitroglycerin	55-63-0	0.05 ppm (0.46 mg/m ³) Skin	Ceiling – 0.2 ppm (2 mg/m ³) Skin	Austria, France, Sweden: 0.095 mg/m ³ Finland: 0.1 mg/m ³ Germany: 0.094 mg/m ³ Spain, Poland: 0.5 mg/m ³ Norway: 0.3 mg/m ³ United Kingdom: 1.9 mg/m ³



				New Zealand: 0.46 mg/m ³ Alberta, Manitoba, Newfoundland & Labrador, Saskatchewan, British Columbia, Ontario, Northwest Territories: 0.05 ppm, Quebec: 0.2 ppm Mexico: 0.5 mg/m ³ Japan: 0.46 mg/m ³ Australia: 0.46 mg/m ³ South Africa: 2 mg/m ³ Namibia: 0.46 mg/m ³
Lead Styphnate	15245-44-0	None established	None established	None established
Aluminum	7429-90-5	1 mg/m ³	5 mg/m ³	Austria: 10 mg/m ³ Sweden: 5 mg/m ³ Norway: 1 mg/m ³ Mexico: 10 mg/m ³ Alberta, Northwest Territories, Quebec, Saskatchewan: 10 mg/m ³ British Columbia, Manitoba, Newfoundland & Labrador, Ontario: 1 mg/m ³ Mexico: 10 mg/m ³ Australia: 10 mg/m ³ South Africa: 10 mg/m ³

Engineering Controls

Ensure effective operation of ventilation system with scheduled inspections and routine maintenance if significant dust and/or fumes are generated.

Respiratory Protection

Not normally needed, but when there is the potential of exceeding established occupational exposure limits provide appropriate respiratory protection including HEPA cartridges/canisters.

Eye/Face Protection

Wear safety glasses.

Hand Protection

Not normally needed.

Skin Protection

Not normally needed.

Hearing Protection

Not normally needed, but when shooting/firing wear hearing protection.

General

DO NOT eat, drink, or smoke while utilizing this product. Wash hands thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Brass case with lead free bullet
Upper Flammability	Not available
Lower Flammability	Not available
Explosive	Explosive, fire or projection hazard. Sensitive to mechanical impact.
Odor	Not available
Odor Threshold	Not available
Vapor Pressure	Not available
Vapor Density	Not available
pH	Not available
Relative Density	Not available
Melting Point	Not available
Freezing Point	Not available
Boiling Point	Not available



Solubility	Insoluble
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	No
Octanol/Water Partition Coefficient	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

Polymerization will not occur.

INCOMPATIBLE MATERIALS

Acids, caustics and strong oxidizers

DECOMPOSITION PRODUCTS

Nitrogen oxides, carbon monoxide, carbon dioxide

CONDITIONS TO AVOID

Extreme heat, static/electrical discharge, mechanical shock/crushing of cartridge or box. Contact with incompatible materials.

11. TOXICOLOGICAL INFORMATION

Potential inhalation, skin contact and ingestion. The physical nature of this product makes absorption unlikely. A small amount of inhalable particles may be created when firing.

Component	LD50 (Oral)	LC50 (Inhalation)	IDLH	Irritation	Skin Contact
Copper	1,000 mg/m ³	>2,000 mg/m ³	100 mg/m ³	Respiratory Irritant	375mg/kg, sc (rabbit)
Nickel	No Data	No Data	10 mg/m ³	Skin Irritant	No Data
Zinc	7,950mg/kg (mouse)	2,500 mg/m ³ (mouse)	500 mg/m ³	Eye Irritant	No Data
Nitrocellulose	>5g/kg	No Data	No Data	No Data	No Data
Nitroglycerin	1,607mg/kg (rabbit)	No Data	75 mg/m ³	Mild eye/skin Irritant	>280 mg/kg (rabbit)
Lead Styphnate	No Data	No Data	No Data	No Data	No Data

OTHER ADVERSE EFFECTS

Target Organ Toxicity

No reported target organ toxicity from this product.

Reproductive Toxicity

No reported effects.

Carcinogenicity

This product is not classified a carcinogen by IARC, OSHA, NTP or EPA. However, there are some components that are carcinogens according to these agencies including nickel.

12. ECOLOGICAL INFORMATION

This product has no ecological information available. Individual components information is as follows.

COPPER (7440-50-8) Toxic in high concentrations.

LC50 Fish	≤0.0068 mg/l (Exposure time: 96 hours, Species:
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	Pimephales promelas)
EC50 Daphnia	0.03 mg/l (Exposure time: 48 hours, Species: Daphnia magna)
EC50 Other Aquatic Organisms	0.043 – 0.054 mg/l (Exposure time: 72 hours, Species: Pseudokirchneriella subcapitata)

NICKEL (7440-02-0)

LC50 Fish	100 mg/l (Exposure time: 96 hours, Species: Brachydanio rerio)
EC50 Daphnia	100 mg/l (Exposure time: 48 hours, Species: Daphnia magna)
EC50 Other Aquatic Organisms	0.174 – 0.311 mg/l (Exposure time: 96 hours, Species: Pseudokirchneriella subcapitata)

NITROGLYCERIN (55-63-0)

LC50 Fish	0.87 – 3.25 mg/l (Exposure time: 96 hours, Species: Lepomis macrochirus)
EC50 Daphnia	45 - 55 mg/l (Exposure time: 48 hours, Species: Daphnia magna)

13. DISPOSAL CONSIDERATIONS**WASTE DISPOSAL RECOMMENDATIONS**

Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Avoid release into the environment.

14. TRANSPORT INFORMATION

Agency	UN Number	UN Proper Shipping Name	Transport Hazard Class	Packing Group Number	Environmental Hazards	EmS-No. (Fire)	EmS-No. (Spillage)
DOT, TDG, IMO, IATA/ICAO, ADR	UN0012	Cartridges, Small Arms	1.4S	II	No Data	No Data	No Data
IMDG	UN0012	Cartridges for Weapons, Inert Projectile	1.4S	No Data	No Data	F-B	S-X

15. REGULATORY INFORMATION**US FEDERAL**

Toxic Substances Control Act (TSCA)	The components of this product are listed on the TSCA.
Superfund: Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)	Reportable Quantity: Copper 5000lbs, Nickel 100lbs, Zinc 1,000lbs, Nitroglycerin 10lbs
SARA 313	Copper, Nickel, Nitroglycerin, Aluminum and Zinc
SARA 311/312	Health: Acute – No, Chronic – No Fire: No Reactivity: Yes Release of Pressure: No



SARA 302 List	No components listed.
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STATE RIGHT-TO-KNOW

COMPONENT	CA	NJ	PA	MA	MI
Copper	Not Listed	X	X	X	X
Nickel	X	X	X	X	Not Listed
Zinc	Not Listed	X	Not Listed	X	X
Nitrocellulose	Not Listed	X	X	X	Not Listed
Nitroglycerin	Not Listed	X	X	X	Not Listed
Lead Styphnate	X	Not Listed	Not Listed	X	Not Listed
Aluminum	X	X	Not Listed	X	X

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): **WARNING: This Product contains lead styphnate, and nickel which are recognized by the State of California to cause cancer and/or birth defects.**

CANADIAN REGULATIONS

WHMIS Classification Small Arms Ammunition – Centerfire Rifle Lead Free	Class 6 Explosives – Toxic and Infectious Substances NOTE: Explosives are not regulated under WHMIS. They are subject to the regulations of the Explosives Act of Canada.
Canadian Ingredient Disclosure List	Nickel, Copper, Aluminum
Canadian DLS (Domestic Substances List) Inventory	Zinc, Nickel, Nitrocellulose, Copper, Nitroglycerin, Aluminum

Component	IDL Concentration
Copper	1%
Nickel	0.1%
Zinc	Not Listed
Nitrocellulose	0.1%
Nitroglycerin	0.1%
Lead Styphnate	0.1%
Aluminum	1%

EUROPEAN REGULATIONS

Component	EINECS	ELNICS	RISK/SAFETY PHRASES
Copper	Yes	No	Not Listed
Nickel	Yes	No	Carcinogenicity Category 3, R40, R43 T, R48/23, T R:40-43-48/23 S2-36/37/39-45, S, 7



Zinc	Yes	No	Not Listed
Nitrocellulose	No	No	E, R3, S2-35, T, S2-35
Nitroglycerin	Yes	No	T, R26/27/28, E, R3, R33, N, R51-53, T, N, R3-26/27/28-33-51/53, S ½-33-35-36/37-45-61
Lead Styprate	Yes	Yes	E, R3, Reproductive Category 1, R61, Reproductive Category 3, R62, XN, R20/22, R33, N, R50-53, T, N, R, 61-3-20/22-33-50/53-62, S, 53-45-60-61
Aluminum	Yes	Yes	Not Listed

16. OTHER INFORMATION

Disclaimer: The information contained in this Safety Data Sheet is provided to all individuals who are or will be exposed to this product through use, handling, storage or transport. To the best of Weatherby manufacturing company's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided.

Preparation Date: September 1, 2019

Revision Date: