

Remington Arms**Material Safety Data Sheet**

This Material Safety Data Sheet has been prepared in compliance with Federal OSHA Hazard Communication Standard 29 CFR 1910.1200, ANSI Z400.1-1993 and the ISO Safety Data Sheet Standard. This product may be considered to be a hazardous chemical under 29 CFR 1910.1200. This information is required to be disclosed for safety in the workplace. ***This MSDS is applicable only to the product identified herein and only when used properly.***

NOTE: Refer to Section XVII for *List of Acronyms*.

I. PRODUCT IDENTIFICATION

Product: COMPONENT BULLETS (CENTERFIRE & MUZZLELOAD)

HMIS Rating

Health: 2
Flammability: 0
Reactivity: 0

**IN EVENT OF EMERGENCY
 (Spill, Leak, Fire, Exposure, Accident)
 CALL CHEMTREC DAY OR NIGHT
 (800) 424-9300
 In Arlington, VA 741-5000
 Outside Continental U.S.A. (703) 741-5000**

II. HAZARDOUS COMPONENT INFORMATION

Centerfire and Muzzleload Bullets contains the following hazardous chemicals. The percent by weight of the hazardous ingredients in Centerfire and Muzzleload Bullets are listed in the table below.

1. Projectile Lead, Copper, Zinc, Antimony, Arsenic

Hazardous Ingredients	Percent by Weight	CAS Number	Exposure Limits (PEL)
Copper	0-33%	7440-50-8	None established
Zinc	0-4%	7440-66-6	TWA (fume) 0.1 mg/m ³ TWA (dust, mist) 1.0 mg/m ³
Lead	64-100% *0% (Copper Slugs)	7439-92-1	TWA 0.05 mg/m ³
Antimony	0-2.5%	7440-36-0	TWA 0.5 mg/m ³
Arsenic	0-0.7%	7440-38-2	TWA 0.5 mg/m ³

III. HAZARDS IDENTIFICATION

Emergency Overview: N/A

Potential Human Health Effects:

- Skin Contact:** May cause allergic reaction (sensitization) in susceptible individuals.
- Eye Contact:** Dust and fumes can irritate the eyes causing redness and discharge.
- Inhalation:** Inhalation of dust or fumes may cause irritation to nose, throat, upper respiratory tract and lungs. Irritation may lead to bronchitis, headache, lowering of blood pressure and weakness.
- Ingestion/Absorption:** Ingestion may cause severe headache, nausea, vomiting, abdominal pain, fatigue, diarrhea, trembling, ringing in ear and salivation.

Carcinogenicity Information: This product is not classified a carcinogen by IARC, OSHA, NTP or EPA. Lead and Arsenic are classified a carcinogen by IARC.

IV. FIRST AID MEASURES

- Skin Contact:** Wash affected area thoroughly with soap and water. Remove contaminated clothing. Wash clothing thoroughly prior to reuse. Discard any contaminated leather items (i.e. shoes, etc.).
- Eye Contact:** If wearing contacts, immediately remove contact lenses. Hold eyelids apart and flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention immediately.
- Inhalation:** Immediately remove to fresh air. Administer artificial respiration, if necessary. If breathing is difficult, administer oxygen. Obtain medical attention immediately.
- Ingestion/Absorption:** If conscious, drink large amounts of water. Induce vomiting. Immediately contact a physician or Poison Control Center. *Never* induce vomiting or give anything by mouth to an unconscious person.

V. FIRE HAZARDS

- Flammable Properties:** Non-flammable.
- Extinguishing Media:** Flood fire with water to fight fire. If no water is 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 face shield or SCBA to protect from fumes.

VI. ACCIDENTAL RELEASE MEASURES

Safeguards: N/A

Spill Cleanup: If disposal is necessary, refer to *XIII. DISPOSAL CONSIDERATIONS*.

Accidental Release: See above.

VII. HANDLING AND STORAGE

Personnel Handling: Wash hands thoroughly after handling.

Storage: Store in original containers in a cool, dry, well-ventilated area away from all sources of ignition. Do not subject to mechanical shock. Keep out of reach of children. This product *must not be stored* with acids, strong oxidizers or caustics.

VIII. PERSONAL PROTECTION/EXPOSURE CONTROLS

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

Personal Protective Equipment: Safety glasses recommended when handling or firing rounds. Hearing protection recommended when firing rounds. Use of a NIOSH/MSHA-approved respirator is recommended when concentrations to fumes and/or dust exceed the PEL or TLV.

Exposure Guidelines: Keep product away from sources of accidental ignition.

Exposure Limits: Exposure limits listed with each hazardous chemical.

IX. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA

Form:	Solid	Evaporation Rate:	N/A
Color:	Variable	Melting Point:	N/A
Odor:	None	Solubility in Water:	N/A
Boiling Point:	N/A	pH:	N/A
Specific Gravity:	N/A		
Vapor Pressure:	N/A		
Vapor Density:	N/A		

X. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use conditions. Will not react with water.

Other Hazards:

Incompatibility: Incompatible with acids, strong oxidizers and caustics.

Polymerization: Will not occur.

Conditions to Avoid: N/A

XI. TOXICOLOGICAL INFORMATION

Oral LD 50: No available data.
Dermal LD 50: No available data.
Inhalation LC 50: No available data.
Irritation: Not a skin or eye irritant.

XII. ECOLOGICAL INFORMATION**Aquatic Toxicity:**

Lead (LC 50) to Bluegill: 2-5 mg/l
Barium to Stickleback: 400 mg/l
Barium Nitrate to Stickleback: 760 mg/l

Environmental Impact:

When used and disposed of properly, there is no detrimental environmental impact.

XIII. DISPOSAL CONSIDERATIONS

This product is considered a characteristic hazardous waste per 40 CFR 261.24 *for disposal purposes only*. Dispose of as required by local, state and federal laws and regulations.

EPA Hazardous Waste Code: D008 (lead)

XIV. TRANSPORTATION INFORMATION**SHIPPING INFORMATION**

Proper Shipping Name: Components for Small Arms
Hazard Class: N/A
UN/NA No: N/A
Packing Group: N/A
Shipping Label: None required.
Special Information: May be reclassified internationally as:
Hazard Class: N/A
UN/NA No.: N/A
Packing Group: N/A
Shipping Label: N/A

XV. REGULATORY INFORMATION**U.S. FEDERAL REGULATIONS**

TSCA Inventory Status: Included on list.

This product contains a toxic chemical or chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

XVI. OTHER INFORMATION

NFPA Rating: Not established.

HAZARD CLASSIFICATION

Chronic Health: Headache, nausea, weakness
Acute Health: Anemia, embryotoxin.
Fire Hazard: 0 (per *HMIS Rating*)
Pressure Hazard: None.
Reactivity Hazard: 0 (per *HMIS Rating*)

NPCA-HMIS Ratings:

Health: 2
Flammability: 0
Reactivity: 0

References:

Code of Federal Regulations, Monthly Summary, CFR 1910.1200(g) and Appendix E (B.),
 Regulations Management Corporation, Bloomington, Indiana, July 1, 1994.

Hazardous Chemical Desk Reference: Third Edition, Richard J. Lewis, Sr., Van Nostrand Reinhold,
 Copyright 1993.

American National Standards Institute, Z400.1-1993.

International Standards Organization Safety Data Sheet Standard.

XVII. LIST OF ACRONYMS

ACGIH American Conference of Governmental Industrial Hygienists
AIHA WEEL American Industrial Hygiene Association-Workplace Environmental Exposure Level
ANSI American National Standard Institute
BEI Biological Exposure Indexes
CAS Chemical Abstract Service
CFR Code of Federal Regulations
CL Ceiling Limit (must not be exceeded)
DSL Domestic Substances List
EPA Environmental Protection Agency
HMIS Hazardous Materials Identification System
IARC International Agency for Research on Cancer
IATA International Air Transport Association
ICAO International Civil Aviation Organization
ISO International Standards Organization
LC Lethal Concentration
LD Lethal Dose
MITI Ministry of International Trade and Industry (Japan)
MSHA Mine Safety and Health Administration
NFPA National Fire Protection Association
NIOSH National Institute for Occupational Safety and Health
NTA National Transportation Agency (Canada)
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration

ORM	Other Regulated Materials
PEL	Permissible Exposure Limit (OSHA)
SCBA	Self-contained Breathing Apparatus
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Values (ACGIH)
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN/NA	United Nations/North American (Identification number)
SARA	Superfund Amendments and Reauthorization Act
RCRA	Resource Conservation and Recovery Act

For additional information, please contact:

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Madison, NC 27025-0700**

(800) 243-9700

The information contained in this *Material Safety Data Sheet* is provided to all individuals who are or will be exposed to this product through use, handling, storage or transport. Remington believes, yet makes no warranty, that all information contained in this document is current as of the date of publication.
