

**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: Tungsten-Bronze-Iron Pellets (Wingmaster HD™)**

**HMIS Rating**

**Health: 1**  
**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**

Tungsten Bronze Iron Pellets consist of a sintered composite of tungsten, bronze and iron. The bronze is an alloy of copper and tin (90% Copper/10% Tin by weight). The percent by weight of the hazardous are listed in the table below.

Hazardous Ingredients	Percent by Weight	CAS Number	Exposure Limits (PEL)
Copper	41-44 %	7440-50-8	TWA (dust) 1.0 mg/m <sup>3</sup>
Iron	0-2%	7440-39-3	TWA 0.5 mg/m <sup>3</sup>
Tungsten	50-55%	7440-3-7/7440-33-7	TWA 5 mg/m <sup>3</sup> (TLV)
Tin	4-6%	7440-31-5	TWA 2 mg/m <sup>3</sup>

**III. HAZARDS IDENTIFICATION****Potential Human Health Effects:**

**Skin Contact:** May cause irritation in susceptible individuals.

**Eye Contact:** Dust and fumes can irritate the eyes causing redness and discharge.

**Inhalation:** None

**Ingestion/Absorption:** None

**Carcinogenicity Information:** This product is not classified a carcinogen by IARC, OSHA, NTP or EPA.

**IV. FIRST AID MEASURES**

<b>Skin Contact:</b>	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.).
<b>Eye Contact:</b>	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.
<b>Inhalation:</b>	N/A
<b>Ingestion/Absorption:</b>	N/A

**V. FIRE HAZARDS**

<b>Flammable Properties:</b>	Large accumulations of dust could result in a flammable dust/air mixture.
<b>Extinguishing Media:</b>	N/A

**VI. ACCIDENTAL RELEASE MEASURES**

<b>Safeguards:</b>	None Required
<b>Spill Cleanup:</b>	If disposal is necessary, refer to <i>XIII. DISPOSAL CONSIDERATIONS</i> .
<b>Accidental Release:</b>	See above.

**VII. HANDLING AND STORAGE**

<b>Personnel Handling:</b>	High density of material provides surprisingly large weights for small unit volumes. Take care in handling shipping containers. Use appropriate equipment to move material to ensure personnel safety. Avoid generating dust.
<b>Storage:</b>	Store in original containers. This product <i>is recommend to not be stored</i> with acids, strong oxidizers or caustics.

**VIII. PERSONAL PROTECTION/EXPOSURE CONTROLS**

<b>Engineering Controls:</b>	Local exhaust ventilation is recommended if significant dusting occurs. Otherwise, use general exhaust ventilation.
<b>Personal Protective Equipment:</b>	Safety glasses and shoes recommended when handling shipping containers. Use of a NIOSH/MSHA-approved respirator is recommended when concentrations to fumes and/or dust exceed the PEL or TLV.
<b>Exposure Guidelines:</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Exposure Limits:</b>	<ul style="list-style-type: none"><li>• Exposure limits listed with each hazardous chemical.</li></ul>

**IX. PHYSICAL AND CHEMICAL PROPERTIES****PHYSICAL DATA**

<b>Form:</b>	Solid	<b>Evaporation Rate:</b>	N/A
<b>Color:</b>	Gray/Bronze	<b>Melting Point:</b>	850°C for the composite Bronze
<b>Odor:</b>	None	<b>Solubility in Water:</b>	Insoluble
<b>Boiling Point:</b>	2900°C	<b>pH:</b>	N/A
<b>Specific Gravity:</b>	11-12 gram/cc		
<b>Vapor Pressure:</b>	N/A		
<b>Vapor Density:</b>	N/A		

**X. STABILITY AND REACTIVITY**

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

**Other Hazards:**

<b>Incompatibility:</b>	Fluorine attaches tungsten.
<b>Polymerization:</b>	N/A
<b>Conditions to Avoid:</b>	None

**XI. TOXICOLOGICAL INFORMATION**

<b>Oral LD 50:</b>	No available data. Iron powder >5g/kg (rat)
<b>Dermal LD 50:</b>	No available data.
<b>Inhalation LC 50:</b>	No available data.
<b>Irritation:</b>	Not a skin or eye irritant unless specific allergy exists. Mild irritant in powder form.

**XII. ECOLOGICAL INFORMATION****Aquatic Toxicity:**

Meets minimum requirements for nontoxic shot per United States Fish & Wildlife Service standards/

**Environmental Impact:**

There is no known environmental impact.

**XIII. DISPOSAL CONSIDERATIONS**

Recycle back to supplier

**XIV. TRANSPORTATION INFORMATION****SHIPPING INFORMATION**

<b>Proper Shipping Name:</b>	Tungsten-Bronze-Iron Pellets
<b>Hazard Class:</b>	N/A
<b>UN/NA No:</b>	N/A
<b>Packing Group:</b>	N/A
<b>Shipping Label:</b>	None required.
<b>Special Information:</b>	N/A

**XV. REGULATORY INFORMATION**

Section 313 Supplier Notification: this product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): None

In addition to the ingredients listed in Section 2, this product contains the following chemicals considered by the State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as causing cancer or reproductive toxicity and for which warnings are now required: None

The Comprehensive Environmental Response, Compensation, and Liability Act of 1990, Sec102 (40 CFR 302) requires that any "release" into the "environment" of these hazardous substances contained in a product in excess of the "reportable quantity" in any 24-hour period must be immediately reported to the National Response Center (800-424-8802). Reporting is not required under certain circumstances such as a federally permitted release or the release of certain metal solid particles with a diameter larger than 100 micrometers: Not Required

If this product is discarded as a waste, it would be identified with the following hazardous waste classification under the Resource Conservation and Recovery Act (40 CFR 261). The act specifies requirements for the management and disposal of hazardous wastes: None

Components on Canadian "Ingredient Disclosure List": Not Available

TSCA (Toxic Substances Control Act): Components of this product listed on the TSCA Inventory are: None

**XVI. OTHER INFORMATION**

**NFPA Rating:** Not established.

**HAZARD CLASSIFICATION**

**Chronic Health:** None  
**Acute Health:** None.  
**Fire Hazard:** 0 (per *HMIS Rating*)  
**Pressure Hazard:** None.  
**Reactivity Hazard:** 0 (per *HMIS Rating*)

**NPCA-HMIS Ratings:**

**Health:** 1  
**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**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>AIHA WEEL</b>	American Industrial Hygiene Association-Workplace Environmental Exposure Level
<b>ANSI</b>	American National Standard Institute
<b>BEI</b>	Biological Exposure Indexes
<b>CAS</b>	Chemical Abstract Service
<b>CFR</b>	Code of Federal Regulations
<b>CL</b>	Ceiling Limit (must not be exceeded)
<b>DSL</b>	Domestic Substances List
<b>EPA</b>	Environmental Protection Agency
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>ISO</b>	International Standards Organization
<b>LC</b>	Lethal Concentration
<b>LD</b>	Lethal Dose
<b>MITI</b>	Ministry of International Trade and Industry (Japan)
<b>MSHA</b>	Mine Safety and Health Appliance
<b>NFPA</b>	National Fire Protection Association
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTA</b>	National Transportation Agency (Canada)
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>ORM</b>	Other Regulated Materials
<b>PEL</b>	Permissible Exposure Limit (OSHA)
<b>SCBA</b>	Self-contained Breathing Apparatus
<b>STEL</b>	Short-Term Exposure Limit
<b>TLV</b>	Threshold Limit Values (ACGIH)
<b>TSCA</b>	Toxic Substances Control Act
<b>TWA</b>	Time Weighted Average
<b>UN/NA</b>	United Nations/North American (Identification number)
<b>SARA</b>	Superfund Amendments and Reauthorization Act
<b>RCRA</b>	Resource Conservation and Recovery Act

**For additional information, please contact:**

**Remington Arms Company, Inc.  
P.O. Box 700  
870 Remington Road  
Madison, NC 27025-0700**

**(800) 243-9700**

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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.

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