

# SAFETY DATA SHEET

HEVI-Shot SDS: Non-Toxic Shot (Bismuth, Tin Shot)

Revision 6/25/2021, Rev 1

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: NON-TOXIC SHOT Made from Bismuth and Tin

Chemical Name: Mixture – Metal Alloy Synonyms: HEVI-Shot® Alloy

**Chemical Family:** Metal Alloy

Formula: Not applicable – mixture Product Use: Ammunition – Shot Shell

**Company Address:** Federal Cartridge Company d/b/a Hevi Shot

1307 Clark Mill Rd P.O. Box 779

Sweet Home, OR 97386 T 1-800-635-7656

dangerous.goods@vistaoutdoor.com

EMERGENCY TELEPHONE: CHEMTREC Day or Night

1-800-424-9300 CCN796979

#### 2. HAZARDS IDENTIFICATION

HAZARD RATINGS (for dust or fume) Degree of hazard (0 = low, 4 = extreme)

<u>Hazardous Materials Identification</u> Health: 0 Flammability: 1 Physical Hazard-0

System (HMIS)

National Fire Protection Association (NFPA) Mixture: N/A

## HUMAN THRESHOLD RESPONSE DATA

Odor Threshold:UnknownIrritation Threshold:UnknownImmediately Dangerous to Life or Health<br/>(IDLH) Value (s):None



## POTENTIAL HEALTH EFFECTS

This product is composed of a tungsten, tin, copper, nickel & iron powder. It is non-toxic. Therefore, under normal handling of the product, no exposure to any harmful materials will occur. People with a skin sensitivity to nickel could have mild irritation from handling the shot.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: There are no medical conditions known to be aggravated by exposure to this product in its solid form.

POTENTIAL ENVIRONMENTAL EFFECTS: Products approved by US Fish and Wildlife Service demonstrated no significant adverse environmental effects.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Components	% By Weight	EINECS/ELINCS#
7440-69-9	Bismuth	0-95	231-177-4
7440-31-5	Tin	0-10	231-141-8

OSHA REGULATORY STATUS: Not Applicable

#### 4. FIRST AID MEASURES

EYE CONTACT: Immediately flush out particles with large amounts of water for at least 15 minutes, occasionally lifting the

upper and lower eyelids. If eye irritation develops, call at physician at once.

SKIN CONTACT: Wash skin with plenty of soap and water.

INHALATION: N/A

INGESTION: If ingested, immediately call a physician.

#### 5. FIRE FIGHTING MEASURES

PROPERTY	VALUE	PROPERTY	VALUE
Explosive:	Not applicable	Flammable:	No
Combustible:	Not applicable	Pyrophoric:	No
Flash Point ( C ):	Not applicable	Burning Rate of Material:	Not applicable
Lower Explosive Limit:	Not applicable	Auto Ignition Temp:	No data
		Flammability Classification	
Upper Explosive Limit:	Not applicable	(defined by 29 CFR 1910.1200	None

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SPECIAL HAZARDS Bismuth Oxides

SPECIAL FIREFIGHTING PROCEDURES: In case of fire, use normal firefighting equipment.



#### 6. ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL: Chemtrec at 1-800-424-9300 CCN796979

Spills of this material do not require any special handling. If, however, a large spill occurs, call **Chemtrec at 1-800-424-9300 CCN796979** for technical assistance.

## 7. HANDLING AND STORAGE

Handling: No special requirements

Storage: Keep containers tightly closed in a dry, cool and well

Shelf Life Limitations: Indefinite
Incompatible Materials for Packaging: None known
Incompatible Materials for Storage/Transportation: None known
Conditions to Avoid: None known

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7440-69-9	Bismuth			
7440-31-5	Tin	2 mg/ m <sup>3</sup>	2 mg/ m <sup>3</sup>	None Established

<sup>\*</sup>This substance is regulated by OSHA as a Particulate Not Otherwise Regulated (PNOR). The exposure limits listed for both OSHA and ACGIH refer to total dust. The OSHA PEL for the respirable fraction is 5mg/m<sup>3</sup>.

ENGINEERING CONTROLS: Local exhaust ventilation is recommended if significant dusting occurs or if fumes are

generated. Otherwise, use general exhaust ventilation.

EYE/FACE PROTECTION:

SKIN PROTECTION:

Use safety glasses.

Handle with gloves.

RESPIRATORY PROTECTION: Respiratory protection is not normally needed.

GENERAL HYGIENCE: Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
	Metal Alloy Shot-Silver in		
Appearance:	color	Vapor Density (air = 1:	Not applicable
Odor:	None	Boiling Point (F):	Not applicable
Molecular Weight:	Not applicable - Mixture	Melting point:	>271 degrees C.
Physical State:	Solid	Specific gravity (g/cc):	8-15 g/cc
pH:	Not applicable	Bulk Density:	Not applicable
	<0.1 hPa(,0.1mmHg) at		
Vapor Pressure (mm Hg)	20°C (68°F)	Viscosity (cps):	Not applicable
Vapor Density	Not applicable	Decomposition Temperature:	No applicable
Solubility in water (20C)	Insoluble	Evaporation Rate:	Not applicable
Volatiles-Percentage by		Octanol/water partition	
Volume	Not applicable	coefficient	Not applicable

#### 10. STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions

MATERIALS TO AVOID:

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION:

None identified to date
Will not occur.

OTHER: N/A

#### 11. TOXICOLOGICAL INFORMATION

*POTENTIONAL EXPOSURE ROUTES:* The physical nature of this product makes absorption for any route unlikely. A small amount of inhalable particles may be created when projectile is fired.

#### ACCUTE ANIMAL TOXICITY DATA:

	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>	Irritation	
For product:	Not applicable for product	Not applicable for product	Not applicable for product.	Shot can be an irritant for people with a nickel sensitivity	
	For Components:				
Bismuth	LD50 Rat-male and female-2,000 mg/kg	No data	No data	No data	
Tin	No data	No data	No data	Respiratory Irritant	

SUBCHRONIC/CHRONIC TOXICITY: None known.

<u>CARCINOGENICITY</u>: No component of this product present at levels greater than or equal to 0.1% is

Identified as a carcinogen or potential carcinogen.

<u>MUTAGENICITY</u>: This product is not known or reported to be mutagenic

<u>REPRODUCTIVE, TERATOGENICITY,</u> This product is not known or reported to cause reproductive or

OR DEVLOPMENTAL EFFECTS: developmental effects.

<u>NEUROLOGICAL EFFECTS</u>: This product is not known or reported to cause neurological effects.

INTERACTIONS WITH OTHER CHEMICALS N

WHICH ENHANCE TOXICITY:

None known or reported.

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY: The product has not been tested for environmental properties.

MOBILITY:No data availablePERSISTANCE/DEGRADABILITY:No data available.BIOACCUMULATION:No data available

COMPONENTS:

**Bismuth** Toxicity to daphnia and static test EC50-Daphnia magna (Water flea) - > 100 mg/l - 48 h other aquatic

(OECD Test Guideline 202) invertebrates

## 13. DISPOSAL CONSIDERATIONS:

Neither the alloys nor the constituents of the alloys have hazardous waste numbers listed in 40 CFR Part 261, Appendix VIII.

### 14. TRANSPORT INFORMATION

	U.S. DOT	RID/ADR	IMDG	IATA	IMO	Canada TDG		
PROPER SHIPPING								
NAME:		Bismuth Alloy Shot						
HAZARD CLASS:	Not applicable							
UN NO:	Not applicable							
PACKING GROUP:	Not applicable							

HAZARD LABEL/PLACARD:	Labels not required for ground or water shipment
	Placards are not required (see 49FR 172.504)
	For International air shipments: No special labeling required
	For domestic air shipments: No special labeling required
REPORTABLE	
QUANTITY:	Not applicable
SPECIAL COMMENTS	No special labeling required

#### 15. REGULATORY INFORMATION

#### U.S. FEDERAL

TSCA	All constituents of	All constituents of the bullet are listed on the TSCA inventory				
CERCLA	Tin = 1,000 lbs. O	Tin = 1,000 lbs. Other constituents have no RQ				
SARA 313	Does not apply	Does not apply				
SARA 313 Hazard Class	Health Acute: No Chronic: No	Acute: No Release of Pressure:  No None No				
SARA 302 EMS List	Does not apply	Does not apply				
RCRA	Not listed as hazardous materials in 40 CFR Part 261.					

#### STATE RIGHT-TO-KNOW STATUS

Component	*CA Prop. 65	New Jersey	Pennsylvania	Massachusetts	Michigan
Bismuth	Not listed	X	Х	Not listed	Not listed
Tin	Not listed	Not listed	Х	X	Not listed

#### **EUROPEAN REGULATIONS**

## **HAZARD CLASSIFICATION:**

Danger Symbol: Not applicable Risk Phrases: Not applicable

Safety Phrases: S2 Keep out of reach of children.

German WGK Classification: Not known

CANADIAN REGULATIONS

DSL LIST: The components of this product are on the DSL or are exempt from reporting under the

New Substances Notification Regulations.

Ingredient Disclosure List: Not applicable

WHMIS: This product is not subject to WHMIS.

#### 16. OTHER INFORMATION

**REVISIONS:** 

REPARED BY: Federal Cartridge Company d/b/a Hevi Shot

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. Environ-Metal, Inc. believes this information to be reliable and current as of the date of publication, but

makes no warranty that it is.