

MATERIAL SAFETY DATA SHEET



NTX™ Bullets

MSDS REV. DATE: 02/8/10

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hornady® NTX™ Bullets

TRADE NAMES: NTX™

SYNONYMS AND VARIATIONS: Bullets, projectiles.

MANUFACTURER: Hornady Manufacturing Company
ADDRESS: 3625 W. Old Potash Hwy
Grand Island, NE 68803

NZ DISTRIBUTOR:
Steve's Wholesale Ltd
Units 5-7 / 408 The Esplanade Island Bay Wellington
6023
04 383 7351 0800 303 303
team@steveswholesale.nz
Emergency Contact:
Steve Collings 0274 905 708

EMERGENCY PHONE: 800-338-3220

CHEMTREC PHONE: 800-424-9300 **CHEMTREC INTERNATIONAL:** +703-527-3887

OTHER CALLS: (308) 382-1390

PRODUCT USE: Firearm projectiles

PREPARED BY: M. Spencer

HMIS® Ratings

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	A

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:

<u>NAME</u>	<u>CAS#</u>	<u>%WT</u>	<u>313</u>	<u>OSHA PEL TWA (mg/m³)</u>	<u>ACGIH TLV TWA (mg/m³)</u>
Copper	7440-50-8	0-90	Yes	1.0 (Dust)	1.0 (Dust)
Tungsten	7440-33-7	0-15	No	N/A	10 (Dust)
Tin	7440-31-5	5-25	No	2.0 (Dust)	2.0 (Dust)
Zinc Stearate	557-05-1	0-1	Yes	15 (Dust)	10 (Dust)

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Do not take internally. Byproducts of use may be harmful if inhaled.

ROUTES OF ENTRY: Inhalation, ingestion, skin, eyes

POTENTIAL HEALTH EFFECTS

EYES: None during normal handling. Firing projectiles may result in airborne particles/fragments. Particles/fragments may cause irritation or eye injury if safety glasses are not used.

SKIN: Minimal irritation. Wash hands after handling and before eating, drinking or smoking to reduce chances of ingestion.

INGESTION: While extremely unlikely during intended use, Ingestion of dust can cause abdominal pain, nausea and fever.

INHALATION: Inhalation of dust/fume may lead to the effects described above (Ingestion), as well as respiratory irritation. Inhalation of tin dust has been known to cause a benign condition of the lungs known as Stannosis.

ACUTE HEALTH HAZARDS: Inhaling large amounts of **copper** dust may cause nasal and respiratory irritation as well as nausea and vomiting. **Zinc** ingestion may cause headache, nausea, fever. **Tin** inhalation can cause respiratory tract irritation. Inhalation of **zinc and copper** can lead to "metal fume fever", characterized by chest pain, cough, dyspnea, reduced lung volumes, nausea, chills, malaise, and leukocytosis. Inhalation of **Tungsten** dust may cause cough and sore throat. **CHRONIC HEALTH HAZARDS:** Long term exposure may cause skin sensitization (dermal exposure) or stannosis (inhalation). Prolonged over-exposure to copper through ingestion can lead to liver or kidney damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory conditions easily aggravated by airborne dust or particulates. Effects of copper exposure may be greater in individuals afflicted by Wilson's disease.

CARCINOGENICITY

OSHA: No

IARC: No

OTHER: No

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SECTION 3 NOTES: The physical form of these products makes it unlikely that exposure of any significant amount will occur. Exposure is most likely during ammunition loading operations and can easily be mitigated by sensible hygiene practices; always wash hands after handling projectiles, especially before eating or using tobacco. Firing ammunition will produce small particles that could contain minute amounts of the chemicals listed in section 1. Greatest exposure will occur if firing takes place indoors, or while cleaning bullet traps. See section 8 for exposure controls.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush out fume or particles with large amounts of water for at least 15 minutes. If irritation develops, call physician.

SKIN: Wash affected skin thoroughly with soap and water.

INGESTION: If ingested, call physician immediately.

INHALATION: If signs of lung irritation occur, remove victim to fresh air immediately. If breathing has stopped, administer CPR and get medical attention immediately.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% BY VOLUME) **LOWER:** N/A

FLASH POINT:

F: N/A

C: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE:

F: N/A

C: N/A

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 0

Physical: 0

OTHER:

EXTINGUISHING MEDIA: Not relevant to this product. Choose extinguishing media suitable to surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES: Use SCBA.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides, fumes and dusts from metals listed in section 1.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Spills will not normally require emergency response. If spill is large or other assistance is required, call 800-338-3220 or CHEMTREC at 800-424-9300.

SECTION 6 NOTES: See section 15 for reportable quantities of spilled material.

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry area. Wash hands after handling.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use of proper range filtration and airflow when firing projectiles indoors.

VENTILATION: None required during normal handling and loading. Use mechanical ventilation when firing projectiles indoors to maintain exposures below PEL. Ventilation should not be required outdoors.

RESPIRATORY PROTECTION: Not normally needed.

EYE PROTECTION: Safety glasses

SKIN PROTECTION: Not normally needed, wash hands after handling.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use adequate hearing protection when firing projectiles.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after handling and before eating, drinking or using tobacco.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Cylindrical projectile with copper colored polymer tip. Jacket will be copper colored.

ODOR: None

PHYSICAL STATE: Solid

pH AS SUPPLIED: N/A

pH (Other): N/A

BOILING POINT: N/A

MELTING POINT: N/A

FREEZING POINT: N/A

VAPOR PRESSURE (mmHg): N/A

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): N/A

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: Insoluble

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: N/A

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

MOLECULAR WEIGHT: N/A, Mixture

VISCOSITY: N/A

SECTION 9 NOTES:

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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID (STABILITY): Open flame/high heat (melting).

INCOMPATIBILITY (MATERIAL TO AVOID): Acids and caustics

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides, fume and dusts from metals listed in section I.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

	Copper	Tungsten	Tin	Zinc Stearate
LD-50 (oral)	>5,000 mg/kg	5 g/kg (rat, intraperitoneal)	N/A	>10 g/kg (mouse)
LC-50 (inhalation)	>2,000 mg/m ³	N/A	N/A	N/A
IDLH	100 mg/m ³	N.D.	100 mg/m ³	N.D.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: This product has no ecological information available. Individual component information is as follows:

Copper: Toxic to aquatic species. Concentration required for toxicity varies with water chemistry, light transmittance and other factors. Generally accepted level for aquatic toxicity is >1.0mg/L.

Tin: 73 µg/L (TRV).

Zinc: No Data Available

Tungsten: No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Recycle product if at all possible. The user of this product is responsible for seeing that it is disposed of in accordance with all federal, state and local laws. For more information regarding disposal or recycling of this product contact the manufacturer.

RCRA HAZARD CLASS: Not applicable, unless contaminated.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
NOT REGULATED AS HAZARDOUS MATERIAL

AIR TRANSPORTATION
NOT REGULATED AS HAZARDOUS MATERIAL

SECTION 15: REGULATORY INFORMATION

HSR002948

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Intentional components are listed on the Toxic Substances Control Act Inventory, if applicable.

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CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): CERCLA RQ's: Tin= None, Tungsten= None, Copper= 5,000 lbs., Zinc= 1,000 lbs. Reporting is not required for metals (copper and zinc) if the mean diameter of the particle is greater than .004 inches.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: see section 1

STATE REGULATIONS (Right-To-Know):

New Jersey: Copper, Zinc

Pennsylvania: Copper, Tungsten

Massachusetts: Copper, Zinc, Tungsten

Michigan: Copper, Zinc

CA. PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:

WARNING This product contains the following substance known to the state of California to cause cancer:
NONE

SECTION 15 NOTES: *Not intended to be all-inclusive, only selected regulations represented.*

SECTION 16: OTHER INFORMATION

SW Revised 10.02.20

DISCLAIMER: Hornady Manufacturing Company believes the information contained in this MSDS to be accurate and complete as of the date of publication, however no responsibility is assumed for the suitability of this data to the end user or for omissions or errors in its content. This sheet should be provided to all who use, handle, transport or store the material in question.