


## 1. PRODUCT IDENTIFICATION

1.1	Product name:	HORNADY® Centerfire Rifle and Pistol Ammunition
1.2	Chemical Name	See Section 3 Composition and Ingredients
1.3	Synonyms	Cartridges, Small Arms Ammunition
1.4	Trade Names	Superformance®, Superformance® International, TAP® FPD™, TAP® Barrier™, TAP® Urban™, TAP Precision®, TAP® Training™, TAP®CQ™, Varmint Express™, Critical Defense®, Critical Defense® Lite™, Custom Interbond™, Custom™ SST®, Custom™ Rifle, Custom Lite™, Light Mag SST®, Light Mag Interbond™, Heavy Mag Interbond™, Custom™ Handgun, Danergous Game Series™, LEVERevolution®, Hornady® Match™(incl. 50 BMG), Steel Match™, Zombie MAX™, Critical Duty™, American Whitetail™, Vintage Match™, American Gunner™. Precision Hunter™.
1.5	Product Use	Firearm Ammunition
1.6	Manufacturer's Name	Hornady Manufacturing Company
1.7	Manufacturer's Address	P.O. Box 1848, Grand Island, Ne 68802 USA
1.8	Business Phone	+1 (308) 382-1390
1.9	Emergency Phone	CHEMTREC: +1 (800) 424-9300 / +1 (703) 527-3887
1.10	Prepared By	K.Hoover

## 2. HAZARD IDENTIFICATION

2.1	<p><b>HAZARD CLASSIFICATION:</b>                      Explosive Hazard Division 1.4. Specific Target Organ Toxicity- Repeated Exposure Category 1. Reproductive Toxicity Category 1A. Carcinogenicity Category 2. Skin Sensitization Category 1A. Acute Toxicity (inhalation) Category 3.</p> <p><b>SIGNAL WORD:</b>  <span style="color: red;">Danger</span></p> <p><b>HAZARD STATEMENTS (H):</b>                      H204- Fire or projection hazard. Exposure by inhalation or ingestion                      H372- Causes damage to liver, kidneys, central nervous system, through prolonged or repeated exposure ; H360- May damage fertility or the unborn child; H351- Suspected of causing cancer</p> <p><b>PRECAUTIONARY STATEMENTS (P):</b>                      P210- Keep away from heat- No Smoking. P260- Do not breathe dust/fume. P264- Wash hands thoroughly after handling. P374- fight fire with normal precautions from a reasonable distance.                      P307+313- If exposed or concerned: Get medical advice/attention.                      P501- Dispose of contents in accordance of local/regional/national regulations.</p>	<p><b>Pictogram</b></p> 							
2.2	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Routes of Entry:</td> <td style="width: 10%;">Inhalation:</td> <td style="width: 10%;">Yes</td> <td style="width: 10%;">Absorption:</td> <td style="width: 10%;">No</td> <td style="width: 10%;">Ingestion:</td> <td style="width: 10%;">Yes</td> </tr> </table>	Routes of Entry:	Inhalation:	Yes	Absorption:	No	Ingestion:	Yes	
Routes of Entry:	Inhalation:	Yes	Absorption:	No	Ingestion:	Yes			

See Section 16 for Definitions of Terms Used



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## 3. Composition & Ingredients

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR – ppm (mg/m <sup>3</sup> )							
					ACGIH		NOHSC (ES-)			OSHA		
					TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH (mg)
Aluminum	7429-90-5	BD0330000	231-072-3	0-3	5.0	N/A	10	N/A	N/A	5.0	N/A	N/A
Antimony	7440-36-0	CC4025000	231-146-5	0-2.5	0.5	N/A	0.5	N/A	N/A	0.5	N/A	50
Antimony Sulfide	7440-36-0	CC4025000	231-146-5	<1	0.5	N/A	0.5	N/A	N/A	0.5	N/A	N/A
Barium Nitrate	10022-31-8	CQ9625000	233-020-5	<1	0.5	N/A	N/A	N/A	N/A	0.5	N/A	50
Copper	7440-50-8	GL5325000	231-159-6	5-60	1.0	N/A	0.2	N/A	N/A	1.0	N/A	100
Dibutyl Phthalate	84-74-2	TI0875000	201-557-4	0-1.3	5.0	N/A	5	N/A	N/A	5.0	N/A	4000
2,4 Dinitrotoluene	121-14-2	XT1575000	204-450-0	<1	N/A	N/A	N/A	N/A	N/A	1.5	N/A	N/A
Diphenylamine	122-39-4	JJ7800000	204-539-4	<1	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A
Lead	7439-92-1	OF7525000	231-100-4	5-50	0.05	N/A	0.15	N/A	N/A	0.05	N/A	100
Lead Stypnate	12409-82-6	N/A	N/A	<1	0.05	N/A	0.15	N/A	N/A	0.05	N/A	100
Nickel	7440-02-0	QR5950000	231-111-4	<1	N/A	N/A	1.0	N/A	N/A	1.0	N/A	10
Nitrocellulose	9004-70-0	N/A	N/A	5-20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitroglycerin	55-63-0	QX2100000	N/A	0-2.5	0.46	N/A	0.46	N/A	N/A	N/A	0.2	75
PETN	78-11-5	N/A	201-084-3	0-<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetracene	109-27-3	N/A	203-659-4	0-<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Zinc	7440-66-6	N/A	231-175-3	<1-20	N/A	N/A	N/A	N/A	N/A	15	N/A	500
OTHER COMPONENTS PRESENT IN LESS THAN 1% CONCENTRATION				BAL	THE REMAINING COMPONENTS DO NOT CONTRIBUTE ANY SIGNIFICANT ADDITIONAL HAZARDS							

## 4. FIRST AID



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4.1	<p><b>EYES:</b> Immediately flush out fume or particles with large amounts of water for at least 15 minutes. If irritation develops, call physician.</p> <p><b>SKIN:</b> Wash affected skin thoroughly with soap and water.</p> <p><b>INGESTION:</b> If ingested, call physician immediately.</p> <p><b>INHALATION:</b> If signs of lung irritation occur, remove victim to fresh air immediately. If respiration has stopped administer CPR and get medical attention immediately.</p> <p><b>MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:</b> Fragments from fired ammunition can cause physical injury. When ammunition is fired or otherwise discharged, dust and/or fumes may be absorbed by the digestive system and can result in both acute and chronic overexposure. Symptoms may include gastrointestinal irritation, nausea, vomiting and diarrhea. High concentrations of dust and/or fumes may irritate throat and respiratory system and cause coughing. Symptoms of chronic exposure to lead include anemia, visual and hearing disturbances, headache, memory loss, fatigue, muscle weakness, tremors, and convulsions. Ingestion of ammunition can cause irritation to the digestive system, and possibly other unknown health effects. A drop in blood pressure, headache, cyanosis and mental confusion may result from nitroglycerin in the product.</p>
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4.2	<p>Medical Conditions Aggravated by Exposure: Repeated or prolonged exposure may aggravate an existing dermatitis condition.</p>
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## 5. FIRE & EXPLOSION HAZARDS

5.1	Flashpoint & Method: N/A
5.2	Autoignition Temperature: 160°C-180°C (320°F- 360°F)
5.3	Flammability Limits: Lower Explosive Limit(LEL): Upper Explosive Limit (UEL):
5.4	Fire & Explosion Hazards: Not considered flammable but may burn at high temperatures. Explosive. The effects are largely confined to the package and no projection fragments of appreciable size or range is to be expected. An external fire shall not cause virtually instantaneous explosion of almost the entire contents of the package. Do not expose to heat or ignition sources as this could cause an explosion. If heated above 200 °C (392 °F) may explode.
5.5	Extinguishing Methods: Fight fire with normal precautions from a reasonable distance.
5.6	Firefighting Procedures: Do not breathe fumes from fires or vapors from decomposition. Exercise caution when fighting any chemical fire. If product is unconfined, there is a greater risk for injury from projectiles. Flood area with water to cool exposed product and extinguish fire.

## 6. ACCIDENTAL RELEASE MEASURES

6.1	Spills: Spills will not normally require emergency response. Do not expose product to mechanical shock, electrical shock or impact. Spilled product can be picked up by any non-spark, non-impact tools/methods. If spill is large or other assistance is required, call 800-338-3220 or CHEMTREC at 800-424-9300. If cartridges are damaged or ruptured be very careful to avoid all sources of ignition.
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## 7. STORAGE & HANDLING

7.1	<b>Precautions for Safe Handling:</b> Avoid striking the primer. Ammunition should stay in the manufacturer packaging while transferring. Remove ammunition from service if any of the following conditions have occurred: corrosion, physical damage, exposure to oil or spray type lubricants.
7.2	<b>Storage &amp; Handling:</b> Store in a cool and dry location. Do not expose to excessive heat, flame or other sources of ignition. Avoid mechanical shock and electrical discharge.

## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

8.1	<b>Ventilation &amp; Engineering Controls:</b> Use proper range filtration and airflow as well as sound deadening material for indoor firing.
8.2	<b>Respiratory Protection:</b> Not normally needed. Unless exposure exceeds established occupational exposure limits, then a NIOSH-approved respirator or self-contained breathing apparatus should be used.
8.3	<b>Eye Protection:</b> Safety glasses.
8.4	<b>Hand Protection:</b> None.
8.5	<b>Body Protection:</b> Wash hands thoroughly after use and before eating, drinking, or using tobacco.
8.6	<b>Hearing Protection:</b> Use adequate hearing protection when using firearms
8.7	<b>Notes:</b> FIRED PROJECTILES MAY CAUSE SERIOUS INJURY OR DEATH. Use ammunition ONLY in firearms that are of the correct caliber and in good condition. ALWAYS keep the muzzle pointed in a safe direction. Projectiles have extremely long range, always be certain to have an adequate backstop. To avoid ricochet, do not fire at water, rocks or other hard or flat surfaces.

## 9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	N/A
9.2	Boiling Point:	N/A
9.3	Melting Point:	N/A
9.4	Evaporation Rate:	N/A
9.5	Vapor Pressure @ 20 °C:	N/A
9.6	Molecular Weight:	N/A
9.7	Appearance & Color:	N/A
9.8	Odor Threshold:	N/A
9.9	Solubility:	Insoluble
9.1	pH:	N/A
0		
9.1	Viscosity:	N/A
1		
9.1	Coefficient oil/water Distribution:	N/A
2		
9.1	Additional Information:	N/A
3		

## 10.

## STABILITY & REACTIVITY



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10.1	Stability: Stable under normal conditions.
10.2	Decomposition Products: Lead oxides, lead fume, lead dust, carbon monoxide, nitrogen oxides
10.3	Polymerization: Will not occur.
10.4	Conditions to Avoid: Mechanical shock, electrical discharge, extreme heat.
10.5	Incompatible Substance: Acids, caustics, strong oxidizers

## 11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data: LD50 and LC50					
	Lead:	LD50 (oral)	N/A	LC50 (inhalation)	N/A	IDLH 100mg/m <sup>3</sup>
	Antimony:	LD50 (oral)	7 g/kg (rat)	LC50 (inhalation)	N/A	IDLH 50mg/m <sup>3</sup>
	Barium:	LD50 (oral)	187mg/kg (rat)	LC50 (inhalation)	N/A	IDLH 50mg/m <sup>3</sup>
	Copper:	LD50 (oral)	1,000mg/m <sup>3</sup>	LC50 (inhalation)	>2,000mg/m <sup>3</sup>	IDLH 100mg/m <sup>3</sup>
	Dibutylphthalate	LD50 (oral)	3,474mg/kg (mouse)	LC50 (inhalation)	25mg/m <sup>3</sup> (2H) (mouse)	IDLH 9,300mg/m <sup>3</sup>
	Nitrocellulose	LD50 (oral)	>5g/kg	LC50 (inhalation)	N/A	IDLH N/A
	Nitroglycerine	LD50 (oral)	1,607mg/kg (rabbit)	LC50 (inhalation)	N/A	IDLH 75mg/m <sup>3</sup>
	Zinc	LD50 (oral)	7,950mg/kg (mouse)	LC50 (inhalation)	2,500mg/m <sup>3</sup> (mouse)	IDLH 500mg/m <sup>3</sup>
11.2	Acute Toxicity: See section 2.1					
11.3	Chronic Toxicity: See section 2.1					
11.4	Suspected Carcinogen: Trace amounts of chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be present in this product.					
11.5	Reproductive Toxicity:					
	Mutagenicity:	This product is not expected to cause mutagenic effects in humans. Mutagenic effects have occurred in experimental animals				
	Embryotoxicity:	This product is not expected to cause embryotoxic effects in humans.				
	Teratogenicity:	This product is not expected to cause teratogenic effects in humans. Teratogenic effects have occurred in experimental animals.				
	Reproductive Toxicity:	This product is expected to cause reproductive harm in humans.				
11.6	Irritancy of Product: N/A					
11.7	Biological Exposure Indices: NA					



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11.8 Medical Recommendations:  
Treat symptomatically

## 12. ECOLOGICAL INFORMATION

12.1 Ecological Information:  
This product has no ecological information available. Individual component information as follows:

12.2 Lead:  
Toxic to waterfowl, high concentrations may be toxic to other aquatic species.

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

Dibutyl Phthalate:  
Fathead minnow: 1.3mg/L (96H)

Nitrocellulose:  
LC50>1,000mg/L (aquatic invertebrates, fish, algae)

Nitroglycerine:  
LC50 (96 hour) 1.228mg/L (bluegill)

Zinc:  
Depending on conditions, as little as .13mg/L may be toxic to some species

## 13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal:  
Dispose of in accordance with federal & provincial hazardous waste laws. Product that has become waste must be considered hazardous and disposed of accordingly. 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 of this product contact the manufacturer.

13.2 RCRA Hazard Class:  
D003, D008, depending on condition

## 14. TRANSPORTATION INFORMATION

14.1 49 CFR U.S. Department of Transportation (GND):

Proper Shipping Name:	Cartridges, Small Arms
Hazard Class:	1.4S
ID Number:	UN 0012
Packing Group:	II
Label Statement:	None for highway/water/rail; 1.4 placard for individual packages over 1001 lbs.

14.2 IATA (AIR):

Proper Shipping Name:	Cartridges, Small Arms
Hazard Class:	1.4S
ID Number:	UN 0012
Packing Group:	II
Label Statement:	1.4S Label

14.3 IMGD (OCN):

Proper Shipping Name:	Cartridges for Weapons, Inert Projectile
Hazard Class:	1.4S
ID Number:	UN 0012
EmS- No. (Fire):	F-B



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	EmS- No. (Spillage):	S-X
14.4	TDGR (Canadian GND):	
	Proper Shipping Name:	Cartridges, Small Arms
	Hazard Class:	1.4S
	ID Number:	UN 0012
	Packing Group:	II
	Label Statement:	1.4S
14.5	ADR/RID (EU):	
	Proper Shipping Name:	Cartridges, Small Arms
	Hazard Class:	1.4S
	ID Number:	UN 0012
	Packing Group:	II
	Label Statement:	1.4S
<b>15. REGULATORY INFORMATION</b>		
15.1	SARA Reporting Requirements: Nitroglycerin if above threshold	
15.2	SARA Threshold Planning Quantity: NA	
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.	
15.4	CERCLA Reportable Quantity (RQ):	
	Lead:	10 lbs
	Copper:	5,000 lbs
	Antimony:	5,000 lbs
	Dibutyl Phthalate:	10 lbs
	2,4 Dinitrotoluene:	10 lbs
	Nickel:	100 lbs
	Nitroglycerin:	10 lbs
Zinc:	1,000 lbs	
15.5	311/312: Release of Pressure	
15.6	California Proposition 65: (Lead, Lead Styphnate)- Warning- This product may contain a chemical known to the State of California to cause cancer or birth defects or other reproductive harm.	
15.7	State Regulatory Information:	
	California:	Dibutyl Phthalate
	Massachusetts:	Copper, Dibutyl Phthalate, Lead, Nitrocellulose, Nitroglycerin, Antimony, Zinc
	Michigan:	Copper, Lead, Antimony, Zinc
	Minnesota:	Dibutyl Phthalate
	New Jersey:	Copper, Dibutyl Phthalate, Lead, Nitrocellulose, Nitroglycerin, Antimony, Zinc
Pennsylvania:	Copper, Dibutyl Phthalate, Lead, Nitrocellulose, Nitroglycerin, Antimony	



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15.8	<p>67/548/EEC (European Union) and CLP/GHS (1272/2008/EC) Requirements:</p> <p><b><u>Hazard Classification:</u></b> Cartridges, Small Arms</p> <p><b><u>Signal Word</u></b> Warning</p> <p><b><u>Hazard Statements (H):</u></b> H204- Fire or projection hazard.</p> <p><b><u>Precautionary Statements (P):</u></b> P210- Keep away from heat/sparks/open flames/hot surfaces- No smoking.</p>
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## 16. OTHER INFORMATION

16.1	<p>Other Information: Hazardous Material Information System (HMIS) Health-1 Fire-0 Reactivity-2 PPE-A</p>
16.2	<p>Disclaimer: This Safety Data Sheet complies with Health Canada's Workplace Hazardous Information System (WHIMS) &amp; U.S. OSHA's Hazard Communication Standard 29 CFR 1910.1200. To the best of Hornady 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. The information contained herein relates only to the specific product. Contact the manufacturer for additional information</p>