

# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** AMMUNITION

### Other means of identification

**UN-No.** UN0012

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Small Arms Ammunition

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** TULAMMO USA, INC.

**Supplier Address** 110 N. IH-35  
SUITE 315-PMB #186  
ROUND ROCK  
TEXAS  
78681  
US

**Supplier Phone Number** Phone:800-424-9300  
Fax:512-218-8473  
Contact Phone888-317-5810

**Supplier Email** ed@tulammousa.com

### Emergency telephone number

**Company Emergency Phone Number** 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).



Explosives	Division 1.4
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**GHS Label elements, including precautionary statements****Emergency Overview**

<b>Signal word</b>	<b>Warning</b>
Fire or projection hazard	
This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. Intended use of the product should not result in exposure to the chemical substance.	
<b>Appearance</b> Gray	<b>Physical state</b> Solid
<b>Odor</b> Odorless	

**Precautionary Statements - Prevention**

Obtain special instructions before use

**Precautionary Statements - Response**

None

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

17.2% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

May cause slight eye irritation

**Interactions with Other Chemicals**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%	Trade Secret
Copper	7440-50-8	40 - 70	*
Zinc	7440-66-6	15 - 40	*
Nitroglycerin	55-63-0	1 - 5	*
Dibutyl phthalate	84-74-2	0.1 - 1	*
1,3-Benzenediol, 2,4,6-trinitro-, lead salt	15245-44-0	0.1 - 1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

**4. FIRST AID MEASURES**

**First aid measures**

<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash with soap and water.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

<b>Most Important Symptoms and Effects</b>	No information available.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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<b>5. FIRE-FIGHTING MEASURES</b>
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**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

<b>Uniform Fire Code</b>	SMALL ARMS AMMUNITION (Note 2) LOW EXPLOSIVES (Note 1)
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**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust. Keep people away from and upwind of spill/leak.
<b>Other Information</b>	Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
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### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe dust. Avoid generation of dust. Use only with adequate ventilation and in closed systems.
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### Conditions for safe storage, including any incompatibilities

<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store away from other materials. Store locked up.
<b>Incompatible Products</b>	Strong acids. Strong oxidizing agents. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper 7440-50-8	TWA: 0.2 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> Cu dust and mist	TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> dust and mist (vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist	IDLH: 100 mg/m <sup>3</sup> dust, fume and mist TWA: 1 mg/m <sup>3</sup> dust and mist TWA: 0.1 mg/m <sup>3</sup> fume
Zinc 7440-66-6	STEL: 10 mg/m <sup>3</sup> respirable fraction TWA: 2 mg/m <sup>3</sup> respirable fraction	TWA: 5 mg/m <sup>3</sup> fume TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction	IDLH: 500 mg/m <sup>3</sup> Ceiling: 15 mg/m <sup>3</sup> dust TWA: 5 mg/m <sup>3</sup> dust and fume

			STEL: 10 mg/m <sup>3</sup> fume
Nitroglycerin 55-63-0	TWA: 0.05 ppm S*	(vacated) STEL: 0.1 mg/m <sup>3</sup> not in effect as a result of reconsideration (vacated) S* Ceiling: 0.2 ppm Ceiling: 2 mg/m <sup>3</sup> S*	IDLH: 75 mg/m <sup>3</sup> STEL: 0.1 mg/m <sup>3</sup>
Dibutyl phthalate 84-74-2	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 4000 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
1,3-Benzenediol, 2,4,6-trinitro-, lead salt 15245-44-0	-	-	IDLH: 100 mg/m <sup>3</sup> Pb TWA: 0.050 mg/m <sup>3</sup> Pb

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

**Other Exposure Guidelines** See section 15 for national exposure control parameters

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** None required for consumer use. If there is a risk of contact: Wear safety glasses with side shields (or goggles).

**Skin and body protection** None required for consumer use. If there is a risk of contact: Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves. Chemical resistant apron.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. No information available. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Contaminated work clothing should not be allowed out of the workplace. For environmental protection, remove and wash all contaminated protective equipment before re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

<b>Physical state</b>	Solid	<b>Odor</b>	Odorless
<b>Appearance</b>	Gray	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
<b>pH</b>	No data available	None known	
<b>Melting / freezing point</b>	No data available	None known	
<b>Boiling point / boiling range</b>	No data available	None known	
<b>Flash Point</b>	No data available	None known	
<b>Evaporation Rate</b>	No data available	None known	
<b>Flammability (solid, gas)</b>	No data available	None known	



<b>Flammability Limit in Air</b>		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	Insoluble in water	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	Fire or projection hazard	
<b>Oxidizing properties</b>	No data available	

**Other Information**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions. Explosive properties.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Excessive heat. Heat, flames and sparks. Do not subject to shock.

**Incompatible materials**

Strong acids. Strong oxidizing agents. Strong bases.

**Hazardous Decomposition Products**

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

In case of rupture: . .

**Inhalation**

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).

**Eye contact**

Specific test data for the substance or mixture is not available. (based on components). May cause redness, itching, and pain. Causes serious eye irritation.

**Skin contact**

Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). Prolonged contact may cause redness and irritation. Toxic in contact with skin. May be absorbed through the skin in harmful amounts.

**Ingestion**

Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nitroglycerin 55-63-0	= 105 mg/kg ( Rat )	> 280 mg/kg ( Rabbit )	-
Dibutyl phthalate 84-74-2	= 6300 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	> 15.68 mg/L ( Rat ) 4 h

**Information on toxicological effects****Symptoms**

Erythema (skin redness). May cause redness and tearing of the eyes. Coughing and/ or wheezing.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Nitroglycerin 55-63-0		Group 2A		X
1,3-Benzenediol, 2,4,6-trinitro-, lead salt 15245-44-0		Group 3	Reasonably Anticipated	X

*IARC (International Agency for Research on Cancer)*

*Group 2A - Probably Carcinogenic to Humans*

*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

*NTP (National Toxicology Program)*

*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

**Reproductive toxicity**

Contains a known or suspected reproductive toxin.

**STOT - single exposure**

Respiratory system.

**STOT - repeated exposure**

Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

**Chronic Toxicity**

No known effect based on information supplied. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects. Avoid repeated exposure. Prolonged exposure may cause chronic effects.

**Target Organ Effects**

Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Reproductive System.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**

5,250.00 mg/kg

**ATEmix (dermal)**

250.00 mg/kg (ATE)

**ATEmix (inhalation-gas)**

5,000.50 ppm (4 hr)

**ATEmix (inhalation-vapor)**

25.05 ATEmix



## 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Copper 7440-50-8	96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas)		48h EC50: = 0.03 mg/L
Zinc 7440-66-6	96h EC50: 0.11 - 0.271 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.09 - 0.125 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 2.16 - 3.05 mg/L (Pimephales promelas) 96h LC50: 0.211 - 0.269 mg/L (Pimephales promelas) 96h LC50: = 2.66 mg/L (Pimephales promelas) 96h LC50: = 30 mg/L (Cyprinus carpio) 96h LC50: = 0.45 mg/L (Cyprinus carpio) 96h LC50: = 7.8 mg/L (Cyprinus carpio) 96h LC50: = 3.5 mg/L (Lepomis macrochirus) 96h LC50: = 0.24 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.59 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.41 mg/L (Oncorhynchus mykiss)		48h EC50: 0.139 - 0.908 mg/L
Nitroglycerin 55-63-0		96h LC50: 0.87 - 3.25 mg/L (Lepomis macrochirus) 96h LC50: 2 - 3.8 mg/L (Oncorhynchus mykiss) 96h LC50: 1.6 - 2.6 mg/L (Pimephales promelas) 96h LC50: 0.87 - 2.21 mg/L (Lepomis macrochirus) 96h LC50: 2.2 - 3.7 mg/L (Pimephales promelas)		48h EC50: 38 - 55 mg/L 48h EC50: 46 - 55 mg/L
Dibutyl phthalate 84-74-2	72h EC50: = 1.2 mg/L (Desmodesmus subspicatus) 96h EC50: = 0.4 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 0.71 - 1.2 mg/L (Pimephales promelas) 96h LC50: 1.38 - 1.74 mg/L (Lepomis macrochirus) 96h LC50: 0.42 - 1.28 mg/L (Lepomis macrochirus) 96h LC50: 1.24 - 5.3 mg/L (Oncorhynchus mykiss) 96h LC50: > 1.24 mg/L (Oncorhynchus mykiss) 96h LC50: 0.31 - 5.45 mg/L (Pimephales promelas)	EC50 = 10.9 mg/L 30 min EC50 = 10.9 mg/L 5 min EC50 = 11.1 mg/L 15 min EC50 = 2.2 mg/L 24 h	48h EC50: = 2.99 mg/L 48h EC50: = 3.4 mg/L

### Persistence and Degradability

No information available.

**Bioaccumulation**

Chemical Name	Log Pow
Dibutyl phthalate 84-74-2	5.38

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations. Do not reuse empty containers.

**US EPA Waste Number** D008

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Nitroglycerin 55-63-0	P081			
Dibutyl phthalate 84-74-2	U069	Included in waste stream: F039		U069

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Nitroglycerin 55-63-0		P081		

**California Hazardous Waste Codes 181**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Copper 7440-50-8	Toxic
Zinc 7440-66-6	Ignitable powder Toxic
Nitroglycerin 55-63-0	Toxic Ignitable Reactive
1,3-Benzenediol, 2,4,6-trinitro-, lead salt 15245-44-0	Ignitable Reactive

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No.** UN0012  
**Proper Shipping Name** CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
**Hazard Class** 1.4S  
**Packing Group** II  
**Marine Pollutant** This product contains a chemical which is listed as a severe marine pollutant according to



**Description** DOT  
**Emergency Response Guide Number** UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE, 1.4S, II  
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**TDG**

**UN-No.** UN0012  
**Proper Shipping Name** CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
**Hazard Class** 1.4S  
**Packing Group** II  
**Marine Pollutant** This product contains a chemical which is listed as a severe marine pollutant according to TDG.  
**Description** UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE(COPPER), 1.4S, II, MARINE POLLUTANT

**MEX**

**UN-No.** UN0012  
**Proper Shipping Name** CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
**Hazard Class** 1.4S  
**Description** UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE, 1.4S

**ICAO**

**UN-No.** UN0012  
**Proper Shipping Name** CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
**Hazard Class** 1.4S  
**Description** UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE, 1.4S

**IATA**

**UN-No.** UN0012  
**Proper Shipping Name** CARTRIDGES, SMALL ARMS  
**Hazard Class** 1.4S  
**Description** UN0012, CARTRIDGES, SMALL ARMS, 1.4S

**IMDG/IMO**

**UN-No.** UN0012  
**Proper Shipping Name** CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
**Hazard Class** 1.4S  
**EmS-No.** F-B, S-X  
**Marine Pollutant** Product is a marine pollutant according to the criteria set by IMDG/IMO  
**Description** UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE(COPPER), 1.4S, II, MARINE POLLUTANT

**RID**

**UN-No.** UN0012  
**Proper Shipping Name** CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
**Hazard Class** 1.4  
**Classification code** 1.4S  
**Description** UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE, ENVIRONMENTALLY HAZARDOUS, 1.4

**ADR**

**UN-No.** UN0012  
**Proper Shipping Name** CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
**Hazard Class** 1.4  
**Classification code** 1.4S  
**Tunnel restriction code** (E)  
**Description** UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE, ENVIRONMENTALLY HAZARDOUS, 1.4

**ADN**

<b>UN-No.</b>	UN0012
<b>Proper Shipping Name</b>	CARTRIDGES FOR WEAPONS, INERT PROJECTILE
<b>Hazard Class</b>	1.4
<b>Classification code</b>	1.4S
<b>Special Provisions</b>	364
<b>Description</b>	UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE, ENVIRONMENTALLY HAZARDOUS, 1.4
<b>Hazard Labels</b>	1.4
<b>Limited Quantity</b>	5 KG

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.
IECSC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Copper - 7440-50-8	7440-50-8	40 - 70	1.0
Zinc - 7440-66-6	7440-66-6	15 - 40	1.0
Nitroglycerin - 55-63-0	55-63-0	1 - 5	1.0
Dibutyl phthalate - 84-74-2	84-74-2	0.1 - 1	1.0
1,3-Benzenediol, 2,4,6-trinitro-, lead salt - 15245-44-0	15245-44-0	0.1 - 1	100

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	Yes
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	
Zinc 7440-66-6		X	X	
Dibutyl phthalate 84-74-2	10 lb	X	X	X
1,3-Benzenediol, 2,4,6-trinitro-, lead salt 15245-44-0		X		

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances	RQ
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		RQs	
Copper 7440-50-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Zinc 7440-66-6	1000 lb		RQ 454 kg final RQ RQ 1000 lb final RQ
Nitroglycerin 55-63-0	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
Dibutyl phthalate 84-74-2	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Dibutyl phthalate - 84-74-2	Developmental Female Reproductive Male Reproductive
1,3-Benzenediol, 2,4,6-trinitro-, lead salt - 15245-44-0	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Copper 7440-50-8	X	X	X	X	X
Zinc 7440-66-6	X	X	X	X	
Nitrocellulose 9004-70-0	X	X	X		X
Nitroglycerin 55-63-0	X	X	X	X	X
Dibutyl phthalate 84-74-2	X	X	X	X	X
1,3-Benzenediol, 2,4,6-trinitro-, lead salt 15245-44-0	X	X	X	X	X

**International Regulations**

**Mexico**

**National occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Copper 7440-50-8 ( 40 - 70 )		Mexico: TWA= 1 mg/m <sup>3</sup> Mexico: TWA= 0.2 mg/m <sup>3</sup> Mexico: STEL= 2 mg/m <sup>3</sup>
Nitroglycerin 55-63-0 ( 1 - 5 )		Mexico: TWA 0.05 ppm Mexico: TWA 0.5 mg/m <sup>3</sup> Mexico: STEL 0.1 ppm Mexico: STEL 1 mg/m <sup>3</sup>
Dibutyl phthalate 84-74-2 ( 0.1 - 1 )		Mexico: TWA= 5 mg/m <sup>3</sup> Mexico: STEL= 10 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

**Canada**

**WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 1	<b>Instability</b> 1	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazards</b> 0	<b>Flammability</b> 1	<b>Physical Hazard</b> 1	<b>Personal Protection</b>



X

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**End of Safety Data Sheet**