



Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Standard JIS Z 7250:2000, and EU REACH Regulations

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: PRIMER CUPS AND ANVILS

CAS Number: Mixture – Metal Alloy

**Synonyms:** Centerfire Primer Cup, Centerfire Anvil

Product Use: Centerfire Primer Components

U.N. Number: None

U.N. Dangerous Goods Not regulated

Class

Manufacturer/Responsible Olin Winchester, LLC

Party:

Manufacturers' Address: 600 Powder Mill Road, East Alton, IL 62024 www.winchester.com

**Emergency Telephone** US/Canada: 1-800-424-9300

Number: Outside US/Canada: 703-527-3887

MSDS Control Group: 618-258-3507 (Technical Information Only)

**Revision Date:** 02/28/2019

**Revision No.:** 5

### 2. HAZARDS IDENTIFICATION

Warning!

EMERGENCY OVERVIEW: PRODUCT MAY CAUSE AN ALLERGIC SKIN REACTION. DO NOT TAKE INTERNALLY.

US DOT SYMBOLS CANADA (WHMIS) SYMBOLS

This Product is not subject to WHMIS

**GHS HAZARD SYMBOLS** 

SDS #00103.0001

None

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GHS Classifications: Skin Sensitization, Category 1

Hazardous to the Aquatic Environment, Chronic Category 3

Signal Word: Warning

Hazard Statements: H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects

<u>Target organs:</u> None

**Precautionary Statements:** P262: Do not get in eyes, or on skin

P273: Avoid release to the environment P280: Wear protective gloves/eye protection

P391: Collect spillage

P501: Dispose of product properly

GHS Pictograms: GHS07: Exclamation mark

**EU Classifications:** 

Hazard Symbols Xi

Risk Phrases R43: May cause sensitization by skin contact

R52/53: Harmful to aquatic organisms and may cause long-term adverse effects

Safety Phrases S24/25: Avoid contact with skin and eyes

S37/39: Wear suitable gloves and eye protection S61: Avoid release to the environment

### **Health Hazards or Risks From Exposure**

This product is the finished metal alloy primer used in centerfire ammunition. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. The product contains trace amounts of these harmful substances:

<u>Copper:</u> Inhalation of high concentrations of metallic copper dusts or fumes may cause nasal irritation and/or nausea, vomiting and stomach pain.

<u>Nickel:</u> Repeated exposure may cause an allergic skin reaction consisting of itching, redness, swelling, and rash or urticaria (hives) in sensitized individuals. Epidemiological studies in humans have shown an association between lung and nasal cancers and prolonged occupational exposures to high concentrations of nickel.

It is unlikely that someone would be exposed to a significant amount of copper or nickel from handling these metal pieces.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% By Weight	CAS Number	EINECS/ ELINCS #
Copper	68 – 72	7440-50-8	231-159-6
Zinc	29 - 31	7440-66-6	231-175-3
Nickel	0 – 1	7440-02-0	231-111-4

### 4. FIRST AID MEASURES

<u>Eye Contact:</u> Immediately flush out trace material with water, occasionally lifting the upper and lower eyelids. If eye irritation

develops, call a physician at once.

Skin Contact: Wash skin with plenty of soap and water.

Inhalation: Not applicable

<u>Ingestion:</u> If ingested, immediately call a physician.

<u>Medical Conditions Aggravated By Exposure:</u>
There are no medical conditions known to be aggravated by exposure to this product in its solid form.

# Recommendations To Physcians:

No specific antidote available, treat symptoms

#### 5. **FIRE FIGHTING MEASURES**

PROPERTY	VALUE	PROPERTY	VALUE
Explosive	No	Flammable	Not applicable
Combustible	Not applicable	Pyrophoric	No
Flash Point (°C):	Not applicable	Burning Rate of Material:	Not applicable
Lower Explosive Limit:	Not applicable	Autoignition Temp.:	No data
Upper Explosive Limit:	Not applicable	Flammability Classification: (defined by 29 CFR 1910.1200)	Not applicable

**Unusal Fire and Explosion Hazards:** 

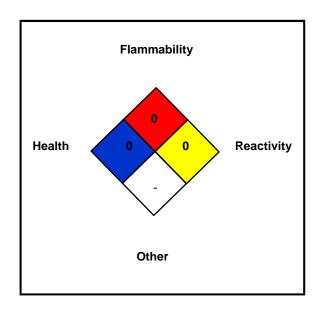
Extinguishing Media: Special Firefighting Procedures:

None.

Choose extinguishing media suitable for surrounding materials.

In case of fire, use normal fire fighting equipment.

### **NFPA RATING SYSTEM**



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### **HMIS RATING SYSTEM**

HEALTH HAZARD (BLUE)				0	
FLAMMABILITY HAZARD (RED)					
PHYSICAL HAZARD (YELLOW)					
PROTECTIVE EQUIPMENT					
EYES PPE RESPIRATORY HEAR CODE					
	В	See Sect 8			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### 6. ACCIDENTAL RELEASE MEASURES

### FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

Spill Response: A spill of this material will normally not require emergency response team capabilities. If,

however, a large spill occurs, call 1-888-289-1911 for technical assistance.

Accidental Release Procedures: Collect material and place in a designated, labeled waste container. See Section 13 for waste

disposal.

## 7. HANDLING AND STORAGE

<u>Precautions for Safe Handling</u>: Use appropriate personal protective equipment (see Section 8). Workers should

wash hands after handling.

<u>Conditions for Safe Storage</u>: Store in original containers away from Acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters:

CAS#	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7440-50-8	Copper	0.2 mg/m³ (fume), 1 mg/m³ (dusts and mists)	0.1 mg/m³ (fume) 1 mg/m³ (dusts and mists)	Austria, Belgium, Canada: 0.2 mg/m³ (fumes), 1 mg/m³ (dusts) Denmark: 1.0 mg/m³ (dust and powder) Germany (MAK): 0.1 mg/m³ (fume), 1 mg/m³ (dusts and mists)
7440-66-6	Zinc	None established	None established	None established
7440-02-0	Nickel	1.5 mg/m³ (inhalable)	1.0 mg/m <sup>3</sup>	Germany, MAK = 1 mg/m³ Canada (B.C.), Czechoslovakia, Denmark, Norway – 0.05 mg/m³, K1, sensitizer Poland = 0.25 mg/m³ Ireland, Sweden, Switzerland, U.K. = 0.5 mg/m³ Belgium, Canada (Alberta & others), Finland, Japan, Mexico, Netherlands – 1 mg/m³ Portugal = 1.5 mg/m³

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Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation.

Respiratory Protection: Not normally needed. Maintain airborne contaminant concentrations below guidelines listed above.

Use an appropriate approved air-purifying respirator equipped with HEPA cartridges/canisters where

there is the potential for exceeding established occupational exposure limits.

<u>Eye/Face Protection:</u> Safety glasses

Hand Protection: Gloves

**Engineering Controls:** 

<u>Skin Protection:</u> Not normally needed Hearing Protection: Not normally needed.

General Hygiene: Wash hands thoroughly after use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
Appearance:	Small metal alloy pieces,	Physical State:	Solid
	Red/gold metallic color		
	(non-plated); silver colored		
	(nickel plated)		
Odor:	None	Odor Threshold:	None
Boiling Point (°F):	Not applicable	Melting point:	Not applicable
Vapor Pressure (mm Hg):	Not applicable	Freezing point:	Not applicable
Vapor Density(air = 1):	Not applicable	Bulk Density(g/cc):	8.66
Specific gravity (g/cc):	8.66	Viscosity (cps):	Not applicable
pH:	Not applicable	Decomposition Temperature:	Not applicable
Solubility in Water (20 ℃):	Insoluble	Evaporation Rate:	Not applicable
Volatiles, Percent by volume:	Not applicable	Octanol/water partition coefficient:	Not applicable

### 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressure.

<u>Possibility of Hazardous Reactions:</u> Hazardous polymerization will not occur

<u>Incompatible Materials:</u> Acids

Hazardous Decomposition Products: None. Reaction with acids may liberate explosive hydrogen gas.

Conditions to Avoid: Contact with incompatible materials.

#### 11. TOXICOLOGICAL INFORMATION

Potential Routes of Entry: Inhalation, Skin, and by Ingestion.

The physical nature of this product makes absorption from any route unlikely.

### Effects Of Acute Exposure:

		COMPONENTS				
PRODUCT		Nickel	Copper	Zinc		
Inhalation LC <sub>50</sub>	Inhalation unlikely	>12 mg/kg, it (rat)	No data	No data		
Skin Contact LD <sub>50</sub>	Skin absorption unlikely	>7.5 g/kg, sc (rabbit)	375 mg/kg, sc (rabbit)	No data		
Ingestion LD <sub>50</sub>	Ingestion unlikely	>5 g/kg (rat)	3.5 mg/kg, ip (mouse)	No data		
Irritation	Not a skin or eye irritant as a solid.	Respiratory irritant	Respiratory irritant	Eye irritant		
Sensitization	Sensitization to this Product has not been reported	Skin sensitzer	No data	No data		

#### Other Adverse Effects:

<u>Target Organ Toxicity:</u> No reported target organ toxicity from this product.

Reproductive Toxicity: This product is not known or reported to cause reproductive effects. Exposure of

male rats to high concentrations of nickel caused testicular degeneration.

<u>Teratogenicity (Birth Defects):</u> This product is not known or reported to cause developmental toxicity.

<u>Mutagenicity:</u> This product is not known or reported to be mutagenic. Nickel has been shown to

be mutagenic in in vitro studies.

Carcinogenicity: This product is not listed as a carcinogen by OSHA, NTP or IARC. In laboratory

animal studies, chronic exposure to high concentrations of nickel has caused an increase in lung and nasal tumors. IARC has classified nickel as possibly

carcinogenic to humans, group 2B.

#### 12. ECOLOGICAL INFORMATION

#### **Environmental Effects:**

PRODUCT: Product has not been tested for environmental properties.

COMPONENTS:

Copper: Copper concentrations from 0.1 to 1.0 mg/l have been found to be not toxic for

most fish. However, concentrations of 0.015 to 3.0 mg/l have been reported as

toxic, particularly in soft water to many kinds of fish, crustacea, mollusks,

insects, and plankton.

Nickel: Freshwater algae (4 species), 72 hr.  $EC_{50} = 0.1 \text{ mg/L}$ ; Daphnia magna, 96 hr

 $LC_{50} = 0.51$  mg/L; Rainbow trout, 96 hr  $LC_{50} = 31.7$  mg/L; Fathead minnow, 96

 $hr LC_{50} = 3.1 mg/L$ 

Zinc: The following concentrations of zinc have been reported as lethal to fish: 0.13

mg/l, for 12 – 24 hours to Rainbow trout fingerlings; 1.9 – 3.6 mg/l, 6 hr TLM (soft water, 30°C) to Bluegill Sunfish; 4 mg/l, 3 days (hard water) to Rainbow

trout; 1 mg/l, 24 hours (soft water) to Sticklebacks.

The presence of copper appears to have a synergistic effect on the toxicity of

zinc towards fish.

### **Environmental Fate:**

MOBILITY: No data

PERSISTANCE/DEGRADABILITY: Not biodegradable.

BIOACCUMULATION: No data

### 13. DISPOSAL CONSIDERATIONS

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding the treatment, storage and disposal for hazardous and nonhazardous wastes.

### 14. TRANSPORT INFORMATION

Regulatory Information for US DOT, IATA, IMO, and ADR:

Proper Shipping Name: None This material is not regulated as a DOT hazardous material.

Hazard Class Number and Description: None

UN Identification Number: None

Packing Group: None

DOT Label(s) Required: None

<u>Additional Information:</u> None

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### 15. REGULATORY INFORMATION

### **US FEDERAL**

TSCA	The compo	The components of this product are listed on the Toxic Substance Control Act inventory.					
CERCLA:		Copper, R.Q.* = 5000 lbs.; Zinc, R.Q. = 1000 lbs.; Nickel, R.Q. = 100 lbs. (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).					
SARA 313:	Copper, Ni	Copper, Nickel, Zinc (fume or dust)					
SARA 311/312:	Health:	Health:Acute – NoFire:NoReactivity:NoneRelease of Pressure:NoChronic - NoChronic - No					
SARA 302 EHS List:	None of the components of this product are listed.						

<sup>\*</sup>RQ = Reportable Quantity

### **STATE RIGHT-TO-KNOW STATUS**

Component	California	New Jersey	Pennsylvania	Massachusetts	Michigan
Copper	Not listed	X	X	X	Х
Zinc	Not listed	X	Not listed	X	X
Nickel	Х	Х	Χ	Χ	Χ

### CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

Warning! This product contains detectable amounts of a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm.

### **GHS CLASSIFICATION**

Skin Sensitization, Category 1 Hazardous to the Aquatic Environment, Chronic Category 3

### **EUROPEAN REGULATIONS**

All chemical components listed on EINECS

**Hazard Classification** 

Danger Symbols: Xi

Risk Phrases: R43, R52/53

Safety Phrases: S24/25, S37/39, S61

German WGK Classification: Not known.

# **CANADIAN REGULATIONS**

DSL/NDSL Inventory: The components of this product are on the DSL

IDL: Copper, Nickel

CEPA PRIORITIES LIST: None

WHMIS: This product is considered to be a manufactured article and therefore not subject to WHMIS requirements.

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### JAPANESE REGULATIONS

Existing National Inventory of Chemical Substances (ENCS): The components of this product are listed

Japanese Priority Assessment Chemical Substances: None of the components of this product are listed

#### OTHER INTERNATIONAL CHEMICAL INVENTORIES

Swiss Giftliste List of Toxic Substances:
All Components Listed
Australian Inventory (AICS):
All Components Listed

#### 16. OTHER INFORMATION

REVISIONS: 05

DATE: 02/28/2019

PREPARED BY: Olin Winchester, LLC

OTHER: Additional information available from: www.winchester.com

<u>NOTICE:</u> 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. OLIN BELIEVES THIS INFORMATION TO BE RELIABLE AND CURRENT AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.