

1.PRODUCT AND COMPANY IDENTIFICATION

Product Name: PRIMERS – CENTERFIRE

CAS Number: Mixture – Metal Alloy

Product Use: Small Arms Ammunition Primer

Manufacturer/Responsible party: Servicios y Aventuras SRL

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2.COMPOSITION/INFORMATION OF INGREDIENTS

CAS Number	Components	CAS Number	Components
7440-50-8	Cu	17994-50-6	C6HN3O8Pb
7439-89-6	Fe	7429-90-5	Al(polvo)
7439-92-1	Pb	10022-31-8	Ba(NO ₃) ₂
109-27-3	C18H12		

3.HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: EXPLOSIVE. KEEP AWAY FROM HEAT. DO NOT SUBJECT TO MECHANICAL SHOCK. PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT TAKE INTERNALLY.

US DOT SYMBOLS



CANADA (WHMIS) SYMBOLS

This Product is not subject to WHMIS

Class 6 Explosive

GHS HAZARD SYMBOLS



GHS Classifications: Carcinogenicity Category 1A

Reproductive Toxicity Category 1A

Explosive Division 1.4

STOT RE Category 1

Aquatic Environment, Chronic II

Signal Word: Danger

Hazard Statements :

H204: Fire or projection hazard

H372: Causes damage to nervous system, kidney, and hematopoietic system through prolonged or repeated exposure

H360: May damage fertility or the unborn child

H411: Toxic to aquatic life with long lasting effects

Target organs: Nervous, renal and hematopoietic systems

Precautionary Statements:

P102: Keep out of reach of children

P210: Keep away from heat/sparks/open flame/hot surfaces – No smoking

P240: Ground container and receiving equipment

P250: Do not subject to shock/impact/excessive force/friction/static electricity/mishandling

P260: Do not breathe dust

P264: Wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well-ventilated area

P273: Avoid release to the environment

P280: Wear eye protection

P370+P380: In case of fire: Evacuate area

[if 1.4B] P373: Do NOT fight fire when fire reaches explosives

[if 1.4S] P374: Fight fire with normal precautions from a reasonable distance

P410: Store in accordance with local regulations

GHS Pictograms: Explosive.Pictogram code: GHS01

Specific Target Organ Toxicity. Pictogram code: GHS08

Environment. Pictogram code: GHS09

EU Classifications:

Hazard Symbols: E,T,N.

Risk Phrases :

R2: Risk of explosion by shock, friction, fire or other sources of ignition

R45 (Category 1): May cause cancer

R48: Danger of serious damage to health by prolonged exposure

R60: May impair fertility

R63: Possible risk of harm to the unborn child

R51/53: Toxic to aquatic organisms and many cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S2: Keep out of reach of children

S15: Keep away from heat

S20/21: When using do not eat, drink or smoke

S39: Wear eye/face protection

S43: In case of fire, use Class A equipment

S51: Use only in well-ventilated areas

S61: Avoid release to the environment

HEALTH HAZARDS OR RISKS FROM EXPOSURE

This product is composed of a metal capsule which contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the product is fired, a small amount of particles may be generated which may be slightly irritating to the eyes and the respiratory tract. The particles may contain trace amounts of these harmful substances:

Lead: Ingestion of large amounts of lead can cause abdominal pain, constipation, cramps, nausea and/or vomiting. Chronic exposure to lead can cause kidney damage, anemia, reproductive effects, developmental effects and permanent nervous system damage in humans including changes in cognitive function. Occupational exposure to lead is associated with lung and stomach cancer. Lead is classified as a probable human carcinogen.

Barium nitrate: Ingestion of large doses of soluble barium compounds can cause cyanosis, skeletal muscle paralysis, respiratory arrest, irregular heartbeat and hypertension.

It is unlikely that the amount of particles that someone would be exposed to from firing would be sufficient to cause any of these effects.

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

4.FIRST AID MEASURES

●Eye Contact: Immediately flush out fume or particles with large amounts of water for at least 15 minutes, 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: If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention.

●Ingestion: If ingested, immediately call a physician.

Medical Conditions Aggravated By Exposure:There are no medical conditions known to be aggravated by exposure to this product in its solid form. Exposure to lead can aggravate anemia, cardiovascular and respiratory disease.

Recommendations to physicians:Remove from exposure, if possible, and treat symptoms.

5.FIRE FIGHTING MEASURES

Explosive: Yes

Flash Point (°C): Not applicable

Flammable: Not applicable

Burning Rate of Material: Not applicable

Combustible: Not applicable

Lower Explosive Limit: Not applicable

Pyrophoric: No

Autoignition Temp.: No data

Upper Explosive Limit: Not applicable

Flammability Classification: (defined by 29 CFR 1910.1200) Explosive.

Unusual Fire and Explosion Hazards: Possible projection hazard.

Extinguishing Media: Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used.

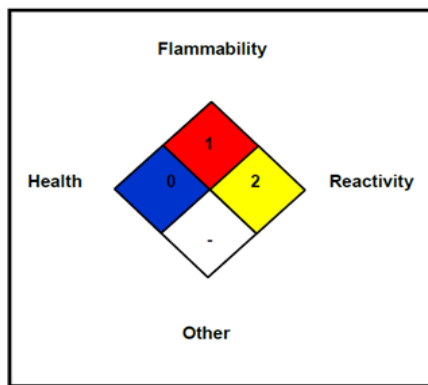
Special Firefighting Procedures: do not fight fire when fire reaches cargo. Cargo may explode.

Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. Structural firefighters' protective clothing will only provide limited protection.

Isolate materials not yet involved in the fire.Move containers from fire area if possible; and cool with carefully applied water spray.

Prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas, if practical.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HEALTH HAZARD (BLUE)		0*
FLAMMABILITY HAZARD (RED)		1
PHYSICAL HAZARD (YELLOW)		2
PROTECTIVE EQUIPMENT		
EYES	PPE CODE	RESPIRATORY HEARING
	A	See Sect 8 See Sect 8

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

6. ACCIDENTAL RELEASE MEASURES

Spill Response:

A spill of this material will normally not require emergency response team capabilities.

Accidental Release Procedures:

Spills of this material should be handled carefully. Do not subject materials to mechanical shock. Collect material and place in a designated, labeled waste container (See Section 13 for waste disposal).

7. HANDLING AND STORAGE

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Workers should wash hands thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored.

Conditions for Safe Storage:

Store in accordance with local regulations. Store in original containers in a cool, dry location away from Acids, Class A & B explosives, strong oxidizers, and caustics. Avoid mechanical impact or shock and electrical discharge.

8. PERSONAL PROTECTION

Engineering Controls: 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.

Eye/Face Protection: use safety glasses.

Hand Protection: not normally needed

Skin Protection: not normally needed.

Hearing Protection: not normally needed. During firing use hearing protection.

General Hygiene: do not eat, drink, or smoke while using this product. Wash hands thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brass cup assembly

Physical State: Solid

Odor: None **Odor Threshold:** None

Boiling Point : Not applicable

Melting point: Not applicable

Vapor Pressure (mm Hg): Not applicable

Freezing point: Not applicable

Vapor Density (air = 1): Not applicable

Bulk Density Not applicable

Specific gravity (g/cc): Not applicable

Viscosity (cps): Not applicable

pH: Not applicable

Decomposition Temperature: 82 °C (180 °F)

Solubility in Water (20 °C): 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.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Hazardous polymerization will not occur

Incompatible Materials: Acids, Class A & B explosives, strong oxidizers, and caustics

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, lead oxides, carbon dioxide, lead dust/fume.

Conditions to Avoid: will detonate with mechanical impact or shock; avoid physical damage (puncture) of containers. 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. A small amount of inhalable particles may be created when cartridge is fired.

12. ECOLOGICAL INFORMATION

Environmental Effect: Product has not been tested for environmental properties. Lead shot has been shown to be toxic to aquatic species and for ground.

Respect the protected species.

Do not abandon the cartridges or their parts in the field.

Environmental Fate:

MOBILITY: Released lead may migrate through soil.

PERSISTANCE/DEGRADABILITY: Not biodegradable. Released lead may accumulate.

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: Primers, Cap Type.

Hazard Class Number and Description: Explosive 1.4S

UN Identification Number: UN 0044

Packing Group: PGII

DOT Label(s) Required: Explosive 1.4

Marine Pollutant: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

15. REGULATORY INFORMATION

The information found in this HDS is in accordance with Decree 302/83-Law 20,429 and by S.A.A.M.I.

16. OTHER INFORMATION

Prepared by: Servicios y Aventuras SRL

Other: Additional information available from our web site.

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. SERVICIOS Y AVENTURAS SRL BELIEVES THIS INFORMATION TO BE RELIABLE AND CURRENT AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.