Safety Data Sheet

1. Product and company identification	
1.1 Product identification	
Product name	22 Hornet, 222 Remington, 223 Remington, 22-250 Remington, 243 Winchester, 6mm Remington, 25-06 Remington, 6,5mm Grendel, 6,5x52 Carcano, 6,5x54 Mannlicher Schoenauer, 6,5x55 Swedish, 6,5x57 Mauser, 264 Winchester Magnum, 6,8 Remington SPC, 270 Winchester, 7mm-08 Remington, 7x57, 7mm Mauser, 7x57 R, 7x64, 7x65 R, 7mm Remington Magnum, 30 Carbine, 308 Winchester, 30-30 Winchester, 7,5x54 French, 7,5x55 Swiss, 30-06 Springfield, 300 Winchester Magnum, 7,62x39, 7,62x54 R, 7,65x53 Argentine, 303 British, 7,92x33 Kurz, 8x50 R Lebel, 8x56 RS Mannlicher, 8x57 IS, 8x57 IRS, 8mm Mauser, 8x60 S, 338 Lapua Magnum, 9,3x62, 9,3x74 R, 375 H&H Magnum, 45-70 Government, 223 Remington, 223 Remington, 6,5x55 Swedish, 7mm Remington, 308 Winchester, 308 Winchester, 308 Winchester, 308 Winchester, 308 Winchester, 308 Winchester, 7,62x54 R, 8x57 IS, 8x57 IS, 8mm Mauser, 8mm Mauser, 338 Lapua Magnum, 10mm Auto, 45 HP, 45 Auto, 357 Magnum, 44 Remington Magnum, .300 AAC Blackout, 6.8 Remington SPC
Code/Tag	
Synonyms	
1.2 Usage identification and not recommended usage	
Method of use	For use in firearms. Usages that should be avoided are given in section 7 Storage and handling.
1.3 Information about the manufacturer	
Manufacturer	Prvi partizan a.d. Miloša Obrenovića 2, Užice, Srbija Tel.: +381 31 563 086, 563 442, Fax: + 381 31 563 472, 563 436,
E-mail	office@prvipartizan.com isidora.sretenovic@prvipartizan.com
1.4 Emergency telephone numbers	
Chemtrec phone: 800-424-9300	

2. Hazards Identification	
2.1 Classification of substance or mixture	
Regulations on classification, packaging, labeling and advertising chemicals and certain products (Official gazette RS 59/2010 i 25/2011). DSD/DPD E, Xn R3, R20/22-33 Regulations on classification, packaging, labeling and advertising chemicals and certain products in accordance with the UN Globally Harmonized System of Classification and Labeling (Official gazette RS 64/2010 i 26/2011). CLP/GHS Explosive 1.1 H204	
2.2 Labeling elements	
DSD/DPD	E R: 3 S: 2/15/16/33 R3: Shock, friction, open fire or other sources of ignition can easily cause an explosion
The full text of risk and safety markings is found in Chapter 16.	

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CLP/GHS	 GHS01 Attention H204 H204: Risk of fire or ejection missiles
The full text of the notice of the dangers and precautions found in Chapter 16.	
2.3	**Other hazards**
The particles generated during firing can be harmful if inhaled.	

3. Structure/information about ingredients

Components	CAS Number	Contents %	Classification	
			DSD/DPD	CLP/GHS
Bullet				
Lead core	7439-92-1	5-20	Xn, N R 20/22-33	Tox. to reproduction. 1A Chronic hazards to aquatic environment 1 H360Df, H302, H373, H410
Copper jacket	7440-50-8	10-15	None	None
Cartridge case				
Brass (Copper + Zinc)				
Copper Zinc	7440-50-8 7440-66-6	30-60	None	None
Loading				
Powder (nitrocellulose + nitroglycerin)				
Nitrocellulose	9004-70-0	5-15	E R 2	Expl. 1.1 H201
Nitroglycerin	55-63-0	1-2	E,T,N R 3-26/27/28-33	Unstable expl. Acute toxicity 2 H200, H330, H310, H300, H373
Primer				
Barium nitrate	10022-31-8	<0,1	Xn R 20/22	Acute toxicity H332, H302
Antimony sulfide	1345-04-6	<0,1	Xn R 20/22, 51/53	Acute toxicity H332, H302, H411
Load dioxide	1309-60-0	<0,1	T,N R 20/22-33-50/53-61-62	Acute toxicity 4 H272, H302, H332, H360, H373, H410
Tetrazene	109-27-3	<0,1	E,Xi R3 R36/38	Expl. 1.1 H201, H315, H319
Lead tricinat	12403-82-6	<0,1	E, Xn, N R 20/22-33-50/53-61-62	Expl. 1.1, Ac.tox.4 H201, H302, H332, H373, H410, H360Df
Pentrite (PETN)	78-11-5	<0,1	E, R3	Expl. 1.1 H 201, H 302

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4. First aid measures

4.1 Description of first aid measures

Inhalation	Affected person should be taken out to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention.
Eyes	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	Wash skin with plenty of soap and water.
Ingestion	If ingested, immediately call a physician.

4.2 Most important symptoms and effects

Inhalation of gases and particles that arise when firing ammunition may result in mild irritation of the throat, eyes, upper respiratory tract and lungs. In the case of prolonged or excessive exposure due to the presence of lead particles the following can occur: anemia, headache, anxiety, fatigue, muscle weakness or mild tremor, seizures, memory loss, problems with vision and hearing and loss of coordination. Other symptoms: vomiting, diarrhea, drop in blood pressure. Prolonged exposure to lead affects the reproductive system in terms of fertility problems, impact on the fetus, increased possibility of miscarriage, etc.

4.3 Immediate medical attention and special treatment

If symptoms are present, be sure to seek medical advice immediately and show this safety data sheet.

5. Fire protection

5.1 Fire extinguishers

Water in large amounts, carbon dioxide, dry powder, soil, etc.

5.2 Special hazards arising

If either individually or in a package the ammunition is heated to 120 °C it may ignite.
If the product is exposed to fire, low speed fragmentation may occur, which can cause injury. Do not try to extinguish but immediately evacuate an area of 500 m in all directions. Combustion will release harmful gases and particles: oxides of carbon, nitrogen, sulfur, lead and antimony.

5.3 Advice for firefighters

When extinguishing, be sure to use breathing apparatus. Use full protective equipment, chemical resistant clothing, gloves and waterproof boots. Wash equipment before re-use.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

In case of cartridge component spillage, carefully pick up the spilled solids in a container that can be tightly closed. Handle components carefully and do not expose to shock and heat. It is not necessary to engage emergency services. No special protective equipment is necessary.

6.2 Precautions relating to the environment

Do not let the spilled components get into water or sewerage network.

6.3 Measures to be taken and material for containment and recovery

No special measures.

6.4 Reference to other sections

Avoid the conditions specified in Section 7.

7. Storage and handling

7.1 Precautions for safe handling

Do not expose to shock, heat and ignition sources. Do not smoke during use. Do not use ammunition that may have been exposed to corrosion, oils or physical damage during storage.

7.2 Conditions for safe storage, including incompatibilities

Store in a dry, cool place in original packaging, away from heat and ignition sources. Maximum allowed temperature in the storage is 50°C. Keep out of the reach of children. Do not store

together with acids, bases and other corrosive agents, or with strong oxidizing agents. Store away from explosives of A and B class. Smoking and use of an open flame or welding equipment should be forbidden in the storage area.
7.3 Specific uses
No information.

8. Exposure controls

8.1 Exposure control parameters

Components	CAS Number	Contents %	Exposure limits	
			EU OSHA PEL	ACGIH TLV
Bullet				
Load core	7439-92-1	5-20	0.05 mg/m^3	0.05 mg/m^3
Copper jacket	7440-50-8	10-15	1 mg/m^3 Fumes: 0.1 mg/m^3	1 mg/m^3 Fumes: 0.2 mg/m^3
Cartridge case				
Brass (Copper + Zinc)				
Copper	7440-50-8	30-60	1 mg/m^3 Fumes: 0.1 mg/m^3	1 mg/m^3 Fumes: 0.2 mg/m^3
Zinc	7440-66-6		10 mg/m^3 (5 mg/m^3 as dust inhalation) Fumes: 5 mg/m^3	10 mg/m^3 Fumes: 5 mg/m^3
Loading				
Powder (nitrocellulose+ nitroglycerin)				
Nitrocellulose	9004-70-0	5-15	No information	No information
Nitroglycerin	55-63-0	1-2	0.2 mg/m^3 STEL	0.46 mg/m^3 (Koža)
Primer				
Barium nitrate	10022-31-8	<0,1	0,5 mg/m^3	0,5 mg/m^3
Antimony sulfide	1345-04-6	<0,1	0,5 mg/m^3	0,5 mg/m^3
Lead dioxide	1309-60-0	<0,1	0,05 mg/m^3	0,05 mg/m^3
Tetrazene	109-27-3	<0,1	No information	No information
Lead tricinat	12403-82-6	<0,1	0,05 mg/m^3	0,05 mg/m^3

8.2 Exposure controls and personal protection

Preventive measures	Sufficient ventilation is recommended in areas with significant quantities of dust and fumes (eg, shooting ranges, etc.). No smoking, the use of open flames, sparks or welding.
Respiratory protection	Recommended when cleaning shooting ranges.
Eye protection	Use safety glasses.
Skin protection	Not required under normal use.

9. Physical and chemical properties

Description of products	Brass case, bullet (projectile), powder (propellant) loading, primer.
Physical state	Solid.
Odor	None.
Molecular Weight	Not applicable.
Solubility in water	Insoluble.
Solubility in organic solvents	Insoluble.
pH	Not applicable.
Boiling point	Not applicable.
Flash point	Not applicable.

Melting point	Not applicable.
Density	Not applicable.
Ignition temp.	Not applicable.
Vapor pressure	Not applicable.
Evaporation rate	Not applicable.
Viscosity	Not applicable.

10. Stability and reactivity

10.1 Reactivity

No reactivity at the recommended conditions of use and storage.

10.2 Chemical stability

No activity at the recommended conditions of use and storage.

10.3 Possibility of hazardous reactions

No possibility of hazardous reactions at recommended conditions of use and storage.

10.4 Conditions to avoid

Do not expose to heat sources and open flames. Ammunition can detonate when broken or struck.

10.5 Incompatible materials

Acids, bases, Class A & B explosives, strong oxidants.

10.6 Hazardous decomposition products

Oxides of lead, antimony, carbon, nitrogen, and sulfur.

11. TOXICOLOGICAL DATA

The product itself does not have toxic effects, but firing (in weapon) generates gases and particles that if inhaled can have toxic effects. Below are given the toxic effects of these substances:

11.1 Information on toxicological effects

Toxic effects of gases

Substance	Inhalation LC50	MDK_{rp} (mg/m^3)	MDK air (mg/m^3)	IDLH
Nitrogen monoxide	870ppm/4h, rat	30	-	100ppm
Nitrogen dioxide	88ppm/4h, rat	9	0,085	20ppm
Carbon monoxide	1807ppm/4h, rat	55	3	1200ppm
Carbon dioxide	836ppm/4h, pacov	9000	-	40000ppm
Sulfur Dioxide	2520ppm/1h, rat	13	0,005	100ppm

Toxic effects of particles

	Lead dioxide	Antimony trioxide
Acute toxicity	LD50 Intraperitoneal	LD50 Oral >34600mg/kg
Skin corrosion / irritation	No information	No information
Serious eye damage / eye irritation	No information	Eyes Mild eye irritation
Hypersensitivity skin or respiratory	No information	Maximization Test It does not cause skin irritation
Germ cell mutagenicity	No information	No information
Carcinogenicity	IARC: 2A Group 2A - probably carcinogenic to humans	IARC: 2B Group 2B - possible carcinogens
Reproductive toxicity	May cause congenital malformations of the fetus Matter which is known to be toxic to human reproduction	Post-Implant mortality The deadly effect on the embryo or fetus
Specific target organ toxicity - single exposure	No information	No information
Specific target organ toxicity -	This may cause damage to	No information

repeated exposure	organs through prolonged or repeated exposure	
Aspiration hazard	No information	No information
Additional information	To our knowledge, the chemical, physical and toxicological properties have not been fully explored	

12. ECO-TOXICOLOGICAL DATA

The product is not biodegradable.

13. DISPOSAL

Index number: 160401 (waste ammunition)

Destruction is done by burning at specifically designated and secured place. Contact the supplier.

14. TRANSPORT REGULATION

14.1	UN number	0012
14.2	Proper shipping name	Cartridges, small arms
14.3	Hazard class	1.4 S
14.4	Packing group	II
14.5	ADR/RID	1.4 S

15. REGULATORY INFORMATION

15.1 Labeling according to EEC directives

DSD/DPD	
The Hazard symbol	E
Risk bookmarks and sentences	R3: Shock, friction, fire or other sources of ignition can easily cause an explosion
Security labels and sentences	S2: Keep out of reach of children S15: Keep away from sources of heat S16: Keep away from sources of ignition / no smoking S33: Take precautionary measures against static discharges
CLP/GHS	
Warning phrases	Attention
Hazard notification	H204: Fire hazard or a minor projection
Precautionary measures	P210: Keep away from heat / sparks / open flames / hot surfaces / no smoking P250: Do not expose under fire / earthquake / friction P374: Fight fire with normal precautions from a reasonable distance P370 + 380: In case of fire, evacuate area

16. OTHER INFORMATION

The information in this Safety Data Sheet are intended for all who use, handle, transport or sale of this product. Information contained herein are based on the present stage of our knowledge and are subject to change. Users of our product must take responsibility for complying with existing laws and regulations.