Safety Data Sheet

1. Identification of the substance / mixture and information about the manufacturer that puts chemicals on the market	
1.1	**Identification of the substance / mixture**
Product name	Ammunition cal. 7,62 x 54mm, 12,7 x 99 (.50 Browning) and 12,7 x 108 mm
Code/Tag	
Synonyms	
1.2	**Identifying ways of using and uses that are not recomanded**
Method of use	
1.3	**Informations 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	**Phone number for emergencies**
Chemtrec phone: 800-424-9300	

2. Hazards Identification	
2.1	**Classification of chemicals**
Regulations on classification, packaging, labeling and advertising chemicals and certain products (Official gazzete 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 Globally Harmonized System of Classification and Labelling of the UN (Official gazzete RS 64/2010 i 26/2011). CLP/GHS Explosive 1.1 H204	
2.2	**Label elements**
DSD/DPD	E R: 3 S: 2/15/16/33 R3: Shock, friction, fire or other sources of ignition can easily cause an explosion
The full text of risk and safety phrases is found in chapter 16.	
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.	

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3.Structure/information about ingredionts				
Components	CAS Number	Contents %	Classification	
			DSD/DPD	CLP/GHS
Bullet				
Load core	7439-92-1	5-20	Xn, N R 20/22-33	Tox. repr. 1A Water environ. chron. 1 H360Df, H302, H373, H410
Copper jacket	7440-50-8	10-15	None	None
Cartridge				
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	Nest.expl. Ak. tox. 2 H200, H330, H310, H300, H373
Primer				
Barium nitrate	10022-31-8	<0,1	Xn R 20/22	Ak.tox. H332, H302
Antimony sulfide	1345-04-6	<0,1	Xn R 20/22, 51/53	Ak.tox. H332, H302, H411
Load dioxide	1309-60-0	<0,1	T,N R 20/22-33-50/53-61-62	Ak.tox.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, Ak.tox.4 H201, H302, H332, H373, H410, H360Df

4. First aid measures	
4.1 Description of first aid measures	
Inhalation	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.
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 is not expected route of exposure.
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 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. The prolonged exposure to lead affects the reproductive system in terms of fertility problems, the impact on the fetus, increased the possibility of abortion, etc.

4.3 Immediate medical attention and special treatment

If symptoms manifest, 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 ammunition heated to 120 ° C charger can be turned on. If the product is exposed to fire may occur fragments of low speed, which can cause injury, do not try to shutdown but immediately evacuate an area of 500m 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, waterproof boots. Equipment wash before re-use.

6. Measures in case of an accident

6.1 Personal precautions, protective equipment and emergency procedures

In case of damage to the packaging elements carefully pick up the spilled solid in a container that can be tightly closed. Elements handled carefully and do not expose to shock and heat. It is not necessary to engage special teams for the answer. No special protective equipment.

6.2 Precautions relating to the environment

Do not let the spill elements get into the watercourse or sewer 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 sources of ignition. Do not smoke during use. Do not use ammunition for which there is evidence that during storage was exposed to corrosion, oils or physical damage.

7.2 Conditions for safe storage, including incompatibilities

Store in a dry, cool place in original container, away from heat and ignition sources. Maximum allowable temperature in the storage 50oC. Keep out of the reach of children. Do not store together with acids, bases and other corrosive agents, and with strong oxidizing agents. Store away from explosives A and B class.
The storage area is forbidden to smoke, use an open flame or welding. Take precautionary measures against the formation of static electricity or sparks.

7.3 Specific uses

No informations.

8. Exposure controls

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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 Pare: 0.1 mg/m^3	1 mg/m^3 Pare: 0.2 mg/m^3
Cartridge				
Brass (Copper+Zinc)				
Copper	7440-50-8	30-60	1 mg/m^3 Pare: 0.1 mg/m^3	1 mg/m^3 Pare: 0.2 mg/m^3
Zinc	7440-66-6		10 mg/m^3 (5 mg/m^3 as dust inhalation) Para: 5 mg/m^3	10 mg/m^3 Para: 5 mg/m^3
Loading				
Powder (nitrocellulose+ nitroglycerin)				
Nitrocellulose	9004-70-0	5-15	No informations	No informations
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 informations	No informations
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	It is recommended that local suction arise if significant quantities of dust and fumes (eg, shooting ranges, etc.). No smoking, the use of open flames, sparks or welding.
Respiratory protection	It is recommended in cases of cleaning the shooting range.
Eye protection	Use safety glasses.
Skin protection	Not required under normal use.

9. Physical and chemical properties	
Description of products	Brass casings containing grain filling and the 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**
It shows no activity at the recommended conditions of use and storage.	
10.2	**Chemical stability**
It shows no activity at the recommended conditions of use and storage.	
10.3	**Possibility of hazardous reactions**
No, at the recommended conditions of use and storage.	
10.4	**Conditions to avoid**
Do not expose to heat sources and open flames. Ammunition can detonate when exposed to breaking or stroke.	
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 give toxic effects, but the incineration generated gases and particles that if inhaled can have toxic effects. Hereinafter will be given the toxic effects of these substances.

11.1 Information on toxicological effects

Toxic effects for gases

Substance	Inhalation LC50	MDK_{rp} (mg/m^3)	MDK of 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 220mg/kg	LD50 Oral – rat >34600mg/kg
Skin corrosion / irritation	No information	No information
Serious eye damage / eye irritation	No information	Eyes - rabbit Mild eye irritation
Hypersensitivity skin or respiratory	No information	Maximization Test - guinea pig 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 to humans
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

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repeated exposure	organs through prolonged or repeated investments	
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. Ecological data are not available.

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	Name of cargo in transit	Ammunition
14.3	Hazard class	1.4 S
14.4	Packing group	II
14.5	ADR/RID	1.4 S

15. REGULATORY INFORMATION

15.1 Labelling according to EEC directives

DSD/DPD	
The Hazard symbol	E
Risk bookmarks and sentenses	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 INFORMATIONS

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.