

RIFLE AMMUNITION

Date of SDS : 03.01.2022
Version No : 1.0

Revision Date : -
SDS No : GBF - 3860/ZSR 11

1- IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1- Product Identifier:

Product Name RIFLE AMMUNITION
Description 5.56 mm. and 7.62 mm. caliber bullets

1.2- Relevant identified uses of the substance or mixture and uses advised against:

Identified uses For Professional Use
Used advised against No data available

1.3- Details of the supplier of the safety data sheet:

Company ZSR Patlayıcı Sanayi A.Ş.
Address Kavaklı Mah. Kavaklı Sokak No: 1/B Karesi-Balıkesir/Turkiye
Telephone +90 (266) 245 08 88 / +90 (266) 266 13 00
E-mail info@zsrpatlayici.com

1.4- Emergency telephone number:

+90 266 266 13 00 (working hours)

2- HAZARDS IDENTIFICATION

2.1- Classification of the substance or mixture:

Classification:

Fire or projection hazard. Division, Part 1.4, H204
Harmful if swallowed, Category 4, H302
Toxic in contact with skin, Category 3, H311
Causes serious eye irritation, Category 2, H319
Toxic if inhaled, Category 3, H331
Suspected of causing cancer. Category 2, H351
Reproductive System Toxicity. Category 1A, H360
May harm a breastfed child. H362
Specific Target Organ Toxicity, Causes damage to organs through prolonged or repeated exposure. Category 1, H372
Long lasting, toxic effect in the aquatic environment. Category 2, H411
Notes: For the full text of the H sentences mentioned in this Section, see Section 16.

2.2- Label elements (according to EC 1272/2008):

GHS Pictograms



Signal word Danger

Contains Antimony sulfide, Lead, Nitroglycerin, Rosin.

Hazard statements

H204 Fire or projection hazard
H302 Harmful if swallowed
H311 Toxic in contact with skin



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- H319 Causes serious eye irritation
- H331 Toxic if inhaled
- H351 Suspected of causing cancer
- H360 May damage fertility or the unborn child
- H362 May cause harm to breast-fed children.
- H372 Causes damage to organs through prolonged or repeated exposure
- H411 Toxic to aquatic life with long-lasting effects.

Precautionary statements

Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P234 Keep only in original container.
- P240 Ground/bond container and receiving equipment.
- P250 Do not subject to grinding/shock friction.
- P260 Do not breathe dust/fumes/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P263 Avoid contact during pregnancy/while nursing.
- P264 Wash contact zones 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 protective gloves/protective clothing/eye protection/face protection.

Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of water
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- P310 Immediately call a POISON CENTER/doctor
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see ... on this label).
- P337 + P313 If eye irritation persists get medical advice/attention.
- P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
- P370 + P372 + P380 + P373 In case of fire: Explosion risk. Evacuation area. DO NOT fight fire when fire reaches explosives.
- P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- P391 Collect spillage.

Storage

- P401 Store according to local regulations
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

Disposal

- P501 Dispose of contents/container to a hazardous or special waste collection point in accordance with local, regional, national and/or international regulations



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2.3- Other hazards

This product is a leak-proof metal alloyed cartridge. Therefore this product does not cause any hazardous substance exposure under normal operating conditions. Eye and respiratory discomfort is possible due to particles which form when product is fired.

3- COMPOSITION/INFORMATION ON INGREDIENTS

3.1- Substances

Not applicable

3.2- Mixtures

Components:

Chemical Name	CAS No.	EC No.	%	Classification
Primer				
Nitrocellulose	9004-70-0	--	40-70	Exp. 1.1, H201
Lead	7439-92-1	231-100-4	0.5-70	Repr. 1A, 360 Lact. H362 STOT RE 1, H372
Copper	7440-50-8	231-159-6	0.5-60	Not Classified
Zinc	7440-66-6	231-175-3	0.1-30	Not Classified
Barium Nitrate	10022-31-8	233-020-5	0-30	Ox. Sol. 2, H272 Acute Tox. 3, H301 Eye Irrit. 2, H319 Acute Tox. 4, H332
Nitroglycerin	55-63-0	200-240-8	0.2-2	Expl. 1.1, H201 Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 2, H411
Antimony sulfide	1345-04-6	215-713-4	0-1.5	Carc. 2, H351 STOT RE 2, H373
PETN	78-11-5	201-084-3	0-1	Unstable Exp. H200
Aluminum powder	7429-90-5	231-072-3	0-1	Flam. Solid 1, H228 Water React. Flam. Gas 2, H261
Lead Styphnate	15245-44-0	239-290-0	0-1	Expl. 1.1, H201 Acute Tox. 4, H302 Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Repr. 1A, H360Df
Tetrazen	109-27-3	203-659-4	0-1	Unst. Expl. H200
Diphenylamine	122-39-4	204-539-4	0-1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Antimony	7440-36-0	231-146-5		Not Classified



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Chemical Name	CAS No.	EC No.	%	Classification
Graphite	7782-42-5	231-955-3	0-1	Not Classified

Notes: The full text for all H-statements is displayed in section 16.

4- FIRST AID MEASURES

4.1- Description of first aid measures

General

Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention.

Inhalation

When symptoms occur: go into open air and ventilate suspected area. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin contact

Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Call a POISON CENTER/doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion

Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2- Most important symptoms and effects, both acute and delayed

- Inhalation : Toxic if inhaled.
- Skin contact : Toxic in contact with skin.
- Eye contact : May cause serious eye irritation.
- Ingestion : Harmful if swallowed.
- Chronic symptoms : Suspected of causing cancer. May damage fertility or the unborn child. May cause harm to breast-fed children. Causes damage to organs through prolonged or repeated exposure.

4.3- Indication of any immediate medical attention and special treatment needed

No specific treatment is recommended. Treat symptomatically.

5- FIRE FIGHTING MEASURES

5.1- Extinguishing Media

Suitable extinguishing media

DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Water may be applied through fixed extinguishing system (sprinklers) as long as people need not be present for the system to operate.

Unsuitable extinguishing media

DO NOT fight fires involving explosives.

5.2- Special hazards arising from the substance or mixture

- Fire hazard : May ignite if heated to 250 °F (121 °C) causing projection of unconfined cartridges.
- Explosion hazard : Explosive. Explosion risk in case of fire.
- Reactivity : May detonate with friction, impact, heat, and low level electrical current.

5.3- Advice for firefighters

Precautionary measures fire : Do not breathe fumes from fires or vapours from decomposition.



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Firefighting instructions : Exercise caution when fighting any chemical fire. DO NOT fight fire when fire reaches explosives. Evacuate area.

Protection during firefighting : Firefighters should wear full protective gear when fighting downwind of initial fire not involving explosives.

6- ACCIDENTAL RELEASE MEASURES

6.1- Personal precautions, protective equipment and emergency procedures

Avoid skin and eye contact. Do not breathe dust or fumes. Evacuate danger area. Do not allow product to spread into the environment.

6.1.1- For non-emergency personnel:

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2- For emergency responders:

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2- Environmental precautions

Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs, inform the local water and waste management authorities in accordance with local regulations.

6.3- Methods and material for containment and cleaning up

Hazardous waste due to potential risk of explosion. Avoid release to the environment.

6.4- Reference to other sections

For information on safe handling see section 7, for information on personal protection equipment see section 8, for disposal-related information see section 13.

7- HANDLING AND STORAGE

7.1- Precautions for safe handling

Additional hazards when processed: Projectiles from fired ammunition can cause puncture wounds. Avoid striking the primer of unchambered cartridges. Remove ammunition from service if any of the following conditions have occurred: corrosion, physical damage, exposure to oil or spray type lubricants.

Precautions for safe: Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Wear recommended personal protective equipment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2- Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place.

Incompatible products: Strong acids. Strong bases. Strong oxidizers.

Incompatible materials: Heat sources. Avoid ignition sources.

Storage area: Store locked up.

7.3- Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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8- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1- Control parameters

Lead (7439-92-1)		
Austria	MAK (mg/m ³)	0,1 mg/m ³
Austria	MAK Short time value (mg/m ³)	0,4 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	0,05 mg/m ³
Cyprus	OEL TWA (mg/m ³)	0,15 mg/m ³
France	VME (mg/m ³)	0,1 mg/m ³ (restrictive limit)
Germany	TRGS 903 (BGW)	300 µg/l (Medium: whole blood - Time: no restriction - Parameter: Lead (women age below 45 years) 400 µg/l (Medium: whole blood - Time: no restriction - Parameter: Lead (women 45 years and older)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0,05 mg/m ³
Italy	OEL TWA (mg/m ³)	0,15 mg/m ³
Latvia	OEL TWA (mg/m ³)	0,005 mg/m ³
Spain	VLA-ED (mg/m ³)	0,15 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	0,15 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	0,45 mg/m ³ (calculated)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,05 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,05 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	0,1 mg/m ³ (all works)
Hungary	AK-érték	0,15 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,15 mg/m ³
Lithuania	IPRV (mg/m ³)	0,07 mg/m ³
Lithuania	TPRV (mg/m ³)	0,2 mg/m ³
Poland	NDS (mg/m ³)	0,05 mg/m ³
Romania	OEL TWA (mg/m ³)	0,05 mg/m ³
Romania	OEL STEL (mg/m ³)	0,10 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0,15 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,05 mg/m ³
Portugal	OEL TWA (mg/m ³)	0,15 mg/m ³ (mandatory indicative limit value)
	OEL chemical category (PT)	A3 - Confirmed Animal Carcinogen with Unknown. Relevance to Humans
Copper (7440-50-8)		
Austria	MAK (mg/m ³)	0,1 mg/m ³
Austria	MAK Short time value (mg/m ³)	0,4 mg/m ³
Belgium	Limit value (mg/m ³)	1 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	0,1 mg/m ³
France	VLE (mg/m ³)	2 mg/m ³
France	VME (mg/m ³)	1 mg/m ³
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0,2 mg/m ³



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Latvia	OEL TWA (mg/m ³)	0,5 mg/m ³
Spain	VLA-ED (mg/m ³)	1 mg/m ³
Netherlands	MAC TGG 8H (mg/m ³)	0,1 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,1 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,1 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	0,1 mg/m ³
Hungary	AK-érték	0,1 mg/m ³
Hungary	CK-érték	0,4 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	2 mg/m ³
Lithuania	IPRV (mg/m ³)	0,2 mg/m ³
Poland	NDS (mg/m ³)	0,2 mg/m ³
Romania	OEL TWA (mg/m ³)	0,50 mg/m ³
Romania	OEL STEL (mg/m ³)	1,50 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³
Slovakia	NPHV (Hraničná) (mg/m ³)	0,2 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,2 mg/m ³
Portugal	OEL TWA (mg/m ³)	1 mg/m ³
Nitroglycerin (55-63-0)		
Austria	MAK (mg/m ³)	0,5 mg/m ³
Austria	MAK (ppm)	0,05 ppm
Austria	MAK Short time value (mg/m ³)	2 mg/m ³
Austria	MAK Short time value (ppm)	0,2 ppm
Belgium	Limit value (mg/m ³)	0,47 mg/m ³
Belgium	Limit value (ppm)	0,05 ppm
France	VME (mg/m ³)	1 mg/m ³
France	VME (ppm)	0,1 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,094 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	0,01 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	0,5 µg/l (Medium: plasma/serum - Time: end of shift Parameter: 1,2-Glycerindinitrate) 0,5 µg/l (Medium: plasma/serum - Time: end of shift Parameter: 1,3-Glycerindinitrate)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0,05 ppm
Spain	VLA-ED (mg/m ³)	0,5 mg/m ³
Spain	VLA-ED (ppm)	0,05 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,5 mg/m ³
Denmark	Grænseværdie (kortvarig) (mg/m ³)	0,2 mg/m ³



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Denmark	Grænseværdie (kortvarig) (ppm)	0,02 ppm
Finland	HTP-arvo (8h) (mg/m ³)	0,3 mg/m ³
Finland	HTP-arvo (8h) (ppm)	0,03 ppm
Finland	HTP-arvo (15 min)	1 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	0,1 ppm
Hungary	AK-érték	0,5 mg/m ³
Hungary	CK-érték	2 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,5 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	0,05 ppm
Ireland	OEL (15 min ref) (mg/m ³)	2 mg/m ³
Ireland	OEL (15 min ref) (ppm)	0,2 ppm
Lithuania	IPRV (mg/m ³)	0,3 mg/m ³
Lithuania	IPRV (ppm)	0,03 ppm
Lithuania	TPRV (mg/m ³)	0,9 mg/m ³
Lithuania	TPRV (ppm)	0,1 ppm
Poland	NDS (mg/m ³)	0,5 mg/m ³
Poland	NDSch (mg/m ³)	1 mg/m ³
Romania	OEL TWA (mg/m ³)	0,05 mg/m ³
Romania	OEL TWA (ppm)	0,006 ppm
Romania	OEL STEL (mg/m ³)	2 mg/m ³
Romania	OEL STEL (ppm)	0,25 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	0,47 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	0,05 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	0,9 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,3 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	0,03 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	0,9 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	0,1 ppm
Portugal	OEL TWA (ppm)	0,05 ppm
Portugal	OEL chemical category (PT)	skin - potential for cutaneous exposure
Aluminum (7429-90-5)		
Austria	MAK (mg/m ³)	10 mg/m ³
Austria	MAK Short time value (mg/m ³)	20 mg/m ³
Belgium	Limit value (mg/m ³)	1 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	1,5 mg/m ³
France	VME (mg/m ³)	5 mg/m ³
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Netherlands	MAC TGG 8H (mg/m ³)	0,05 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	12 mg/m ³ (calculated)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	10,0 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	2 mg/m ³

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Hungary	AK-érték	6 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³
Lithuania	IPRV (mg/m ³)	1 mg/m ³
Poland	NDS (mg/m ³)	1,2 mg/m ³
Romania	OEL TWA (mg/m ³)	1 mg/m ³
Romania	OEL STEL (mg/m ³)	3 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	6 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	2 mg/m ³
Portugal	OEL TWA (mg/m ³)	10 mg/m ³

8.2- Exposure controls

8.2.1- Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

8.2.2- Individual protective measures, such as personal protective equipment:

Respiratory protection:

If engineering controls are not effective in controlling exposure through the air, an approved respirator with a replaceable filter should be used. For more information on respiratory protective requirements, see applicable regulations. Self-contained breathing apparatus. Filter P2. Suitable half mask mask (EN 143).

Eye protection:

Side-shield safety glasses, chemical goggles or full face shield as appropriate, tested and approved in accordance with standards such as EN 166 (EU) should be worn. Contact lenses should not be worn. The final selection of appropriate eye/face protection will vary based on individual circumstances. Eye protection devices must comply with relevant regulations.



Hand protection:

Use protective gloves.

It is sufficient to consider puncture resistance, permeability rates and deterioration in selection of gloves. Selected protective gloves must comply with EN 374 standards.



Glove material:

Gloves made of impermeable material such as PVC or neoprene.

Body Protection:

Appropriate protective work clothing, such as cotton coveralls with buttons at the neck and ankles, is recommended. Chemical resistant aprons are recommended where large quantities are handled.



8.2.3- Environmental Exposure Controls

The provisions of existing legislation for the protection of the environment must be fully fulfilled.

9- PHYSICAL AND CHEMICAL PROPERTIES

9.1- Information on basic physical and chemical properties

Physical state	: Solid.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available



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pH Value, @ 20°C	: No data available
Melting point (°C)	: No data available
Boiling point (°C)	: No data available
Flash point (°C)	: No data available
Evaporation rate	: No data available
Viscosity (°C)	: No data available
Density, gr/cm ³ @ 20 °C	: No data available
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: No data available
Solubility in water	: Not soluble in water.
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature (°C)	: No data available
Decomposition temperature (°C)	: No data available
Explosive properties	: High, mass explosion damage
Burst Rate in 125 mm Steel Tube (VOD)	: No data available
Ideal Detonation Temperature	: No data available
Oxidising property	: No data available

9.2- Other information:

No data available

10- STABILITY AND REACTIVITY

10.1- Reactivity

Reacts with incompatible materials. It shows explosive properties.

10.2- Chemical stability

Stable under normal storage and transportation conditions. Keep away from open flames, sources of fire and sparks. May explode if subjected to shock, especially in large quantities and in confined form.

10.3- Possibility of hazardous reactions

Thermal decomposition may result in the release of toxic and/or irritating fumes, including carbon dioxide, carbon monoxide, oxides of nitrogen, nitric acid and ammonia. Large fires pose a risk of explosion. Heating or exposure to high shock will cause explosion. Electrostatic discharge may cause an explosion.

10.4- Conditions to avoid

Keep away from heat, sparks, friction, fire, ignition sources, shock. May ignite if exposed to high heat or high shock.

10.5- Incompatible materials

Avoid contact with other explosives, pyrotechnics, solvents, acids, alkalis, reducing agents, amines, phosphorus, organic materials/compounds, finely divided combustible materials, finely divided metals and metal oxides.

10.6- Hazardous decomposition products

Thermal decomposition may result in the release of toxic and/or irritating fumes, including carbon dioxide, carbon monoxide, oxides of nitrogen, nitric acid and ammonia.



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11- TOXICOLOGICAL INFORMATION

11.1- Information on toxicological effects

Acute toxicity

Harmful if swallowed. Toxic in contact with skin or inhaled.

Skin corrosion/ irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation

Respiratory or Skin Sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer

Reproductive toxicity

May damage fertility or the unborn child. May cause harm to breast-fed children.

Specific Target Organ Toxicity (Single Exposure)

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (Repeated Exposure)

Causes damage to organs through prolonged or repeated exposure

Aspiration Hazard

Based on available data, the classification criteria are not met.

12- ECOLOGICAL INFORMATION

The product is classified as environmentally hazardous. Toxic to aquatic life with long lasting effects. Category 2, H411.

12.1- Toxicity

No data available.

12.2- Persistence and degradability

No data available.

12.3- Bioaccumulative potential

No data available.

12.4- Mobility in soil

No data available.

12.5- Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6- Other adverse effects

No data available.

13- DISPOSAL CONSIDERATIONS

13.1- Waste treatment methods

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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, regional, national, provincial, territorial and international regulations regarding the treatment, storage and disposal for hazardous and nonhazardous wastes.

14- TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1-	UN number	UN0012
14.2-	UN proper shipping name	CARTRIDGES, SMALL ARMS
14.3-	Transport hazard class(es)	1
14.4-	Packing Group	-
14.5-	Environmental hazard	Hazardous.
14.6-	Special precautions for user	
	Classification Code	1.4S
	Limited Quantity (ADR/RID)	5 Kg
	Exceptional amount (ADR/RID)	E0
	Tunnel code	4(E)
14.7-	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Cod	Not applicable.



Sea transport (IMDG Code)

14.1-	UN number	UN0012
14.2-	UN proper shipping name	CARTRIDGES, SMALL ARMS
14.3-	Transport hazard class(es)	1
14.4-	Packing Group	-
14.5-	Environmental hazard	Hazardous.
14.6-	Special precautions for user	
	Classification Code	1.4S
	Limited Quantity (ADR/RID)	0
	Exceptional amount (ADR/RID)	E0
	EmS No (Fire)	F-B
	N*FS (Spill)	S-X
14.7-	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Cod	Not applicable.



Air transport (ICAO-IATA/DGR)

14.1-	UN number	UN0012
14.2-	UN proper shipping name	CARTRIDGES, SMALL ARMS
14.3-	Transport hazard class(es)	1
14.4-	Packing Group	-
14.5-	Environmental hazard	Hazardous.
14.6-	Special precautions for user	
14.7-	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Cod	Not applicable.





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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

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15- REGULATORY INFORMATION

15.1- Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation (EC) No 1907/2006, (REACH),
- Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006,
- Regulation (EC) No 1272/2008 (CLP),
- Commission Directive 2006/15/EC,
- Commission Directive 2000/39/EC.
- ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

15.2- Chemical safety assessment

A chemical safety assessment has not been performed for this product.

16- OTHER INFORMATION

16.1- Full text of any H-statements not written out in full under Sections 2 to 15

- H200** Unstable explosive
H201 Explosive; mass explosion hazard
H228 Flammable solid
H261 In contact with water releases flammable gas
H272 May intensify fire; oxidizer
H300 Fatal if swallowed.
H301 Toxic if swallowed
H302 Harmful if swallowed
H310 Fatal in contact with skin
H311 Toxic in contact with skin
H319 Causes serious eye irritation
H330 Fatal if inhaled
H331 Toxic if inhaled
H332 Harmful if inhaled
H351 Suspected of causing cancer
H360 May damage fertility or the unborn child
H360Df May damage the unborn child. Suspected of damaging fertility
H362 May cause harm to breast-fed children
H372 Causes damage to organs through prolonged or repeated exposure
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long-lasting effects

16.2- List of abbreviations

- ADR** European Agreement Concerning the Int. Carriage of Dangerous Goods by Road
CAS No Chemical Abstract Service Index Number
CLP Regulation of Classification, Labelling and Packaging of Chemicals
EC No European Commission Number
GHS Globally Harmonized System of Classification and Labelling of Chemicals
IATA International Air Transport Association



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ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
LD50	Dosage producing 50% mortality
PBT	Persistent, Bioaccumulative, Toxic
RID	International Rule for Transport of Dangerous Substances by Railway
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
vPvB	Very Persistent, Very Bioaccumulative

16.3- Other Information:

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Organized by Gultekin Baskoylu (License No: 11544-KDU07)

16.4- Training information

In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

16.5- Sources of information:

- ECHA and related EU directives,
- UN ADR, IMDG, IATA lists,
- Safety data sheets for raw materials and product components,
- Other helpful resources.

16.6- Disclaimer

This information relates to a specific product and is not available for use in combination with any process or with any other material. Do not use on other application(s) without consulting the manufacturer. Information about the product in this Safety Data Sheet has been compiled from knowledge of the individual components. The data given here is based on current knowledge and experience. This Safety Data Sheet analyzes the product in terms of safety requirements and does not give any guarantee of the properties for the product. Usage of the information remains under the sole responsibility of the user.