

SAFETY DATA SHEET

(in accordance with Regulation (EU) No 453/2010)

Shotshell Ammunition



Version: 2

Revision date: 12/06/2018

Print date: 12/06/2017

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: Gamebore Hunting and Sporting Clay Shotshell Cartridges.

1.2 Relevant identified uses of the mixture and uses advised against.

Cartridges for hunting and clay shooting

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: Gamebore Cartridge Co Ltd
Address: Great Union Street, HU9 1AR
City: Hull
Province: United Kingdom
Telephone: +44 1482 223 707
E-mail: info@gamebore.com
Web: www.gamebore.com

1.4 Emergency telephone number: +784 346 2402 (Available 24 hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the mixture.

In accordance with Directive 1999/45/EC:

E - Risk of explosion by shock, friction, fire or other sources of ignition.

Xn - Limited evidence of a carcinogenic effect.

In accordance with Regulation (EU) No 1272/2008:

Carc. 2 : Suspected of causing cancer.

Expl. 1.4 : Fire or projection hazard.

2.2 Label elements.

Labelling in accordance with CLP Regulation (EU) No 1272/2008:

Pictograms:



Signal Word: Explosive

Warning

H statements:

H204 Fire or projection hazard.

P statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3 Other hazards.

The product may have the following additional

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Risk of burning or explosion when confined

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Hazardous Substances Directive 67/548/EEC or Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification Regulation (EC) No 1272/2008	(*)Classification Directive 67/548/CEE
Index No: 612-026-00-5 CAS No: 122-39-4 EC No: 204-539-4 Registration No: 01-2119488966-13-XXXX	[1] diphenylamine	0 - 1 %	Acute Tox. 3 *, H311 - Acute Tox. 3 *, H331 - Acute Tox. 3 *, H301 - Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 - STOT RE 2 *, H373 **	T N R23/24/25 R33 R50/53
Index No: 013-002-00-1 CAS No: 7429-90-5 EC No: 231-072-3 Registration No: 01-2119529243-45-XXXX	[1] aluminium powder (stabilised)	0 - 1 %	Flam. Sol. 1, H228 - Water-react. 2, H261	F R11 R15
CAS No: 10022-31-8 EC No: 233-020-5	[1] barium nitrate	0 - 1 %	Acute Tox. 4, H332 - Acute Tox. 4, H302	Xn R20/22
CAS No: 1345-04-6 EC No: 215-713-4	[1] antimony sulphide	0 - 1 %	Carc. 2, H351	Xn R40
CAS No: 7440-36-0 EC No: 231-146-5 Registration No: 01-2119475609-24-XXXX	[1] antimony	1 - 2.5 %	Carc. 2, H351	Xn R40
CAS No: 7782-42-5 EC No: 231-955-3 Registration No: 01-2119486977-12-XXXX	[1] Graphite	0 - 2.5 %		
CAS No: 7439-92-1 EC No: 231-100-4 Registration No: 01-2119513221-59-XXXX	[1] lead	50 - 75 %		
CAS No: 9004-70-0 EC No: 618-392-2	[1] Nitrocellulose	> =84%		E; R3
CAS No 55-63-0 EC No 200-240-8	[1] Glycerol Trinitrate, Nitroglycerine	6-9,5%		E, R3 R 33

(*) The complete text of the R and H phrases is given in section 16 of this Safety Data Sheet. *, ** See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section

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SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

In case of inhalation of toxic smoke resulting from detonation or burning, remove the affected area and take you outdoors. Prior to the withdrawal of the affected, make sure the total dissipation of smoke, or, if necessary, appropriate personal protective equipment, (unit autonomous respiratory, mask with its proper filter, etc...).

IMPORTANT: in case of any exposure to these toxic smoke, do need an immediate medical examination. There is a risk of suffering from an edema of lung effect delayed to such exposure

Eye contact.

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

The typical clinical manifestations of lead poisoning include weakness, irritability, weakness, nausea, abdominal pain with constipation and anemia.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: FIREFIGHTING MEASURES.

5.1 Extinguishing media.

Recommended extinguishing methods.

NEVER ATTEMPT TO EXTINGUISH THE FIRE Everyone must move away to a safe distance/area

5.2 Special hazards arising from the mixture. **Special risks.**

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

See section 5.1 of this Safety Data She

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SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.).

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers below 50 ° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III)::

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
H1	ACUTE TOXIC	5	20

7.3 Specific end use(s).

Cartridges for hunting and clay shooting

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
diphenylamine	122-39-4	United Kingdom [1]	Eight hours		10
			Short term		20
aluminium powder (stabilised)	7429-90-5	United Kingdom [1]	Eight hours		104
			Short term		
barium nitrate	10022-31-8	European Union [2]	Eight hours		0,5
			Short term		

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antimony sulphide	1345-04-6	Australia [3]	Eight hours		0.5 as Sb
			Short term		
		United Kingdom [1]	Eight hours		0.5 as Sb
			Short term		
		United States [4] (NIOSH)	Eight hours		0.5 as Sb
			Short term		
antimony	7440-36-0	United States [5] (OSHA)	Eight hours		0.5 as Sb
			Short term		
		United States [4] (NIOSH)	Eight hours		0,5
			Short term		
Graphite	7782-42-5	United States [5] (OSHA)	Eight hours		0,5
			Short term		
lead	7439-92-1	United Kingdom [1]	Eight hours		10
			Short term		4
		European Union [2]	Eight hours		0,15
			Short term		

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[2] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[3] According Limit Value list in Workplace Exposures Standards for Airborne Contaminants adopted by Safe Work Australia.

[4] According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).

[5] According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US Occupational Safety and Health Administration (OSHA).

The product does NOT contain substances with Biological Limit Values. Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
aluminium powder (stabilised) N. CAS: 7429-90-5 N. CE: 231-072-3	DNEL (Workers)	Inhalation, Long-term, Local effects	3,72 (mg/m ³)
antimony N. CAS: 7440-36-0 N. CE: 231-146-5	DNEL (Workers)	Inhalation, Long-term, Local effects	0,5 (mg/m ³)
Graphite N. CAS: 7782-42-5 N. CE: 231-955-3	DNEL (Workers)	Inhalation, Long-term, Local effects	1,2 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	Cartridges for hunting and clay shooting
Breathing protection:	
If the recommended technical measures are observed, no individual protection equipment is necessary.	
Hand protection:	
PPE:	Work gloves.
Characteristics:	«CE» marking, category I.
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN

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Maintenance :	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.		
Observations :	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.		
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480
		Material thickness (mm):	0,35
Eye protection:			
If the product is handled correctly, no individual protection equipment is necessary.			
Skin protection:			
PPE:	Protective clothing.		
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.		
CEN standards:	EN 340		
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.		
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.		
PPE:	Work footwear.		
Characteristics:	«CE» marking, category II.		
CEN standards:	EN ISO 13287, EN 20347		
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.		
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Pastic tube inseted into metallic head with an initiator Iso packaged in metal components Colour: N.A./N.A.

Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH: N.A./N.A.

Melting

point: N.A./N.A. Boiling

Point: N.A./N.A. Flash

point: N.A./N.A.

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: N.A./N.A.

Upper Explosive Limit: N.A./N.A.

Vapour pressure: N.A./N.A.

Vapour

density: N.A./N.A.

Relative

density: N.A./N.A.

Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water):

N.A./N.A. Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties:

N.A./N.A. Oxidizing properties:

N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

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9.2. Other information.

VOC content (p/p): 0 %

VOC content: 0 g/l

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

Fire or projection hazard.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

It can cause excessive pressure.

10.4 Conditions to avoid.

Avoid the following conditions:

- Heating.
- High temperature.
- Excess pressure.
- Shocks.
- Friction.
- Static discharge.
- Vibrations.

10.5 Incompatible materials.

Avoid the following materials:

- Flammable materials.

- Toxic materials.
- Oxidizing materials.
- Corrosive materials.

10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- CO_x (carbon oxides).
- NO_x (nitrogen oxides).

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
antimony CAS No: 7440-36-0 EC No: 231-146-5	Oral	LD50	Rat	7000 (mg/kg)
	Dermal			
	Inhalation			

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a) acute toxicity;

Not conclusive data for classification

b) irritation;

Not conclusive data for classification.

c) corrosivity;

Not conclusive data for classification.

d) sensitisation;

Not conclusive data for classification.

e) repeated dose toxicity;

Not conclusive data for classification.

f) carcinogenicity;

Product

classified:

Carcinogen, Category 2: Suspected of causing cancer.

g) mutagenicity;

Not conclusive data for classification.

h) toxicity for reproduction;

Not conclusive data for classification.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
lead N. CAS: 7439-92-1 EC No: 231-100-4	Fish	LC50	Fish	2,8 (mg/l)
	Aquatic invertebrates	LC50	Crustaceans	4,46 (mg/l)
	Aquatic plants			

12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potencial.

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

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SECTION 13 DISPOSAL CONSIDERATIONS.

Destruction of explosives should be carried out by specialised personnel, using controlled processes and installations authorised by the competent bodies. Consult your manufacturer and/or distributor.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions **Sea:** Transport by ship: IMDG.

Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN number.

UN No: UN0012

14.2 UN proper shipping name.

Description: UN 0012 CARTRIDGES FOR WEAPONS, INERT PROJECTILE, 1.4, (E)

14.3 Transport hazard class(es).

Class(es): 1

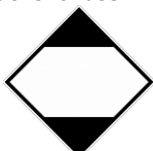
14.4 Packing group.

Packing group: Not applicable.

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.



Hazard number: Not applicable.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-B,S-X
Proceed in accordance with point 6.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

The product is not transported in bulk.

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SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

See annex I of the Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances and the Regulation (EC) No 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals and its subsequent updates.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): H1

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

Substances including by Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals:

Name	
diphenylamine	
N. CAS: 122-39-4	
N. CE: 204-539-4	
Annex I Part 1 - Subcategory	Limitation
Pesticide in the group of plant protection products	Ban
Annex I Part 2 - Category	Limitation
Pesticides	Ban

15.2 Chemical safety assessment.

There has been no evaluation a chemical safety assessment of the product.

SECTION 16: OTHER INFORMATION.

Complete text of the R phrases that appear in section 3:

R11	Highly flammable.
R15	Contact with water liberates extremely flammable gases.
R33	Danger of cumulative effects.
R40	Limited evidence of a carcinogenic effect.
R20/22	Harmful by inhalation and if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Complete text of the H phrases that appear in section 3:

H228	Flammable solid.
H261	In contact with water releases flammable gases.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
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.

Sections changed compared with the previous version:

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1,3,15,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Labelling in accordance with Directive 1999/45/EC:

Symbols:



Explosive

R Phrases:

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

S Phrases:

S60 This material and its container must be disposed of as hazardous waste.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.