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LIGHTFIELD CORP. CONSUMER WILDLIFE S.D.S. SHEET NO. LFCWL-3007

Dear Customer,

This Safety Data Sheet (SDS) has been prepared by Lightfield Corporation to assist you in recognising, if any, the potential health and safety hazards associated with the commercial use of our product.

I. PRODUCT IDENTIFICATION

Product Name: Lightfield Consumer Wildlife Shotshell Loaded Round

Product Code:	(a) 12 Gauge 2 3/4" HV star	CWHV-12
	(b) 12 Gauge 2 3/4" Mid Range Rubber Slug	CWMR-12
	(c) 12 Gauge 2 3/4" Double Ball	CWDB-12
	(d) 20 Gauge 2 3/4" Double Ball	CWDB-20
	(e) 410 Gauge 2 1/2" Rubber Buckshot	CWRB-41
	(f) 12 Gauge 2 3/4" Rubber Buckshot	CWRB-12
	(g) 12 Gauge 2 3/4" Extended range Rubber Slug	CWXR-12
	(h).410 Nova Blank	CWNB-41
	(i) 20 Gauge Nova Blank	CWNB-20
	(j) 12 Gauge Nova Blank	CWNB-12

Use Description: Assembly of shotshell loaded round components.
OSHA Hazard Classification: Explosive.

II. COMPONENT DATA

PRODUCT COMPOSITION

The product consists of the following components:

12 Gauge 2 3/4" Consumer Wildlife HV-Star

CWHV-12

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	45-75%	Rubber Star (1)	CWHV-12-77300
(2) Plastic Hull (Clear)	12-25%	Plastic Hull	CWHV-12-77301
(3) Plastic wad (Powder)	5-12%	Plastic wad (Powder)	CWHV-12-77302
(4) Disc Plastic (Load)	3-5%	Disc Plastic (Load)	CWHV-12-77303
(5) Propellant	5-12%	Smokeless Powder	CWHV-12-77304
(6) Primer	3-7%	Shotshell Primer	CWHV-12-77305

12 Gauge 2 3/4" Consumer Wildlife Mid range Rubber Slug**CWMR-12**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	45/75%	Rubber Slug (Black)	CWMR-12-77300
(2) Plastic Hull (Clear)	14-27%	Plastic Hull	CWMR-12-77301
(3) Plastic Wad (Powder)	5-12%	Plastic Wad (Powder)	CWMR-12-77302
(4) Cardboard Wad (Spacer)	4-10%	Cardboard Wad (Spacer)	CWMR-12-77303
(5) Propellant	5-11%	Smokeless Powder	CWMR-12-77304
(6) Primer	3-7%	Shotshell Primer	CWMR-12-77305

12 Gauge 2 3/4" Consumer Wildlife Double Ball Round**CWDB-12**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	45-75%	Rubber Balls (2)	CWDB-12-77300
(2) Plastic Hull (Clear)	12-25%	Plastic Hull	CWDB-12-77301
(3) Plastic Wad (Powder)	5-12%	Plastic Wad (Powder)	CWDB-12-77302
(4) Disc Cardboard (Load)	3-5%	Disc Cardboard (Load)	CWDB-12-77303
(5) Propellant	4-11%	Smokeless Powder	CWDB-12-77304
(6) Primer	3-7%	Shotshell Primer	CWDB-12-77305

20 Gauge 2 3/4" Consumer Wildlife Double Ball Round**CWDB-20**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	45-75%	Rubber Balls (2)	CWDB-20-77300
(2) Plastic Hull (Clear)	12-25%	Plastic Hull	CWDB-20-77301
(3) Plastic Wad (Powder)	5-12%	Plastic Wad (Powder)	CWDB-20-77302
(4) Disc Cardboard (Load)	3-5%	Disc Cardboard (Load)	CWDB-20-77303
(5) Propellant	4-11%	Smokeless Powder	CWDB-20-77304
(6) Primer	3-7%	Shotshell Primer	CWDB-20-77305

.410 Gauge 2 1/2" Consumer Wildlife Rubber Buckshot**CWRB-410**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	45-75%	Rubber Balls	CWRB-410-77300
(2) Plastic Hull (Clear)	12-25%	Plastic Hull	CWRB-410-77301
(3) Plastic Wad (Powder)	5-12%	Plastic Wad (Powder)	CWRB-410-77302
(4) Disc Cardboard (Load)	3-5%	Disc Cardboard (Load)	CWRB-410-77303
(5) Propellant	4-11%	Smokeless Powder	CWRB-410-77304
(6) Primer	3-7%	Shotshell Primer	CWRB-410-77305

12 Gauge 2 3/4" Consumer Wildlife Rubber Buckshot**CWRB-12**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	45-75%	Rubber Balls	CWRB-12-77300
(2) Plastic Hull (Clear)	12-25%	Plastic Hull	CWRB-12-77301
(3) Plastic Wad (Powder)	5-12%	Plastic Wad (Powder)	CWRB-12-77302
(4) Disc Cardboard (Load)	3-5%	Disc Cardboard (Load)	CWRB-12-77303
(5) Propellant	4-11%	Smokeless Powder	CWRB-12-77304
(6) Primer	3-7%	Shotshell Primer	CWRB-12-77305

12 Gauge 2 3/4" Consumer Wildlife Extended Range Rubber Slug**CWXR-12**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	45-75%	Rubber Slug (Black)	CWXR-12-77300
(2) Plastic Hull (Clear)	14-27%	Plastic Hull	CWXR-12-77301
(3) Plastic Wad (Powder)	5-12%	Plastic Wad (Powder)	CWXR-12-77302
(4) Cardboard Wad (Spacer)	4-10%	Cardboard Wad (Spacer)	CWXR-12-77303
(5) Propellant	5-11%	Smokeless Powder	CWXR-12-77304
(6) Primer	3-7%	Shotshell Primer	CWXR-12-77305

410 Gauge 2 1/2" NOVA-DR Blank Consumer Wildlife**CWNB-410**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	40-50%	Walnut Shell	CWNB-410-77300
(2) Plastic Hull (Clear)	12-25%	Plastic Hull	CWNB-410-77301
(3) Plastic Wad (Powder)	3-8%	Plastic Wad (Powder)	CWNB-410-77302
(4) Disc Cardboard (Load)	4-9%	Disc Cardboard (Load)	CWNB-410-77303
(5) Propellant	6-12%	Smokeless Powder	CWNB-410-77304
(6) Primer	3-7%	Shotshell Primer	CWNB-410-77305

20 Gauge 2 3/4" NOVA-DR Blank Consumer Wildlife**CWNB-20**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	40-50%	Walnut Shell	CWNB-20-77300
(2) Plastic Hull	12-25%	Plastic Hull	CWNB-20-77301
(3) Plastic Wad (Powder)	3-8%	Plastic Wad (Powder)	CWNB-20-77302
(4) Disc Cardboard (Load)	4-9%	Disc Cardboard (Load)	CWNB-20-77303
(5) Propellant	6-12%	Smokeless Powder	CWNB-20-77304
(6) Primer	3-7%	Shotshell Primer	CWNB-20-77305

12 Gauge 2 3/4" NOVA-DR Blank Consumer Wildlife**CWNB-12**

<u>COMPONENT</u>	<u>PERCENT</u>	<u>PRODUCT</u>	<u>CODE NUMBER</u>
(1) Load	40-50%	Walnut Shell	CWNB-12-77300
(2) Plastic Hull	12-25%	Plastic Hull	CWNB-12-77301
(3) Plastic Wad (Powder)	3-8%	Plastic Wad (Powder)	CWNB-12-77302
(4) Disc Cardboard (Load)	4-9%	Disc Cardboard (Load)	CWNB-12-77303
(5) Propellant	6-12%	Smokeless Powder	CWNB-12-77304
(6) Primer	3-7%	Shotshell Primer	CWNB-12-77305

LOAD**Component: - Rubber Slug (b) (g)**

Material: - PVC Compound, Black or Blue Cylindrical Shape, No odor.

Hazardous: - Yes, as fume or dust.

Component: - Rubber Ball (c) (d) (e) (f)

Material: - PVC Compound, Black Spherical, No odor.

Hazardous: - Yes, as fume or dust.

Component: - Rubber Star (a)

Material: - PVC Compound, Various Colors, Spherical Star Shape, No odor.

Hazardous: - Yes as fume or dust.

PLASTIC SHOTSHELL CASE

Plastic Tube (a) (b) (c) (d) (e) (f) (g) (h) (i) (j)

Chemical Name: - Polyethylene

Hazardous: - No

Steel

Hazardous: - No

Brass

Hazardous: - Yes, as fume or dust.

PLASTIC WAD (POWDER)

Over Powder Wad (a) (b) (c) (d) (e) (h) (i) (j)

Chemical Name: - Polyethylene

Hazardous: - No

DISC PLASTIC (LOAD)

Disc Plastic (a)

Chemical Name: - Polyethylene

Hazardous: - No

DISC CARDBOARD (LOAD)

Disc Cardboard (c) (d) (e) (f) (g) (h) (i) (j)

Material: - Cardboard

Hazardous: - No

CARDBOARD WAD (SPACER)

Cardboard Wad (b)

Material: - Cardboard

Hazardous: - No

PROPELLANT

Powder (a) (b) (c) (d) (e) (f) (g) (h) (i) (j)

Chemical Composition: -

Nitrocellulose 89%

Nitroglycerine 9.7%

Diphenylamine 0.4%

Centralite I 0.9%

Added: -

Surface coating agent 1.5%

Graphite 0.1%

Hazardous: - Yes

PRIMER

Primer (a) (b) (c) (d) (e) (f) (g) (h) (i) (j)

Chemical Name: - Steel

Hazardous: - No

Chemical Name: - Copper

Hazardous: - Yes, as fume or dust

Chemical Name: - Zinc

Hazardous: - Yes, as fume or dust
Chemical Name: - Lead Styphnate
Hazardous: - Yes, as fume or dust
Chemical Name: - Barium Nitrate
Hazardous: - Yes

SAFE HANDLING AND STORAGE PRECAUTIONS

- (a) Store in a dry, cool, and well-ventilated area away from all sources of ignition.
- (b) Do not subject to mechanical shock.
- (c) Do not take internally.
- (d) Avoid contact with skin eyes and clothing. Upon contact with skin or eyes wash off with water.
- (e) Shelf life limitations, 20-25 years.
- (f) Incompatible materials for storage or transport: - Strong oxidizers, Class A & B explosives.

PHYSICAL DATA

- a) Appearance: - Plastic cylinder.
- Color: - Clear: (a) (b) (c) (d) (f) (g) Red: (e)

PERSONEL PROTECTIVE EQUIPMENT REQUIREMENTS

- (a) If product is used indoors or in poorly ventilated areas use explosion proof local Exhaust ventilation.
- (b) Always use safety glasses when using this product.

FIRE AND EXPLOSIVE HAZARD INFORMATION

Explosive: - Yes

Extinguishing Media:

Water spray

Try to prevent fire from reaching ammunition, flood with water. If no water is available use sand or foam.

Fire Fighting:

Use water to cool containers exposed to fire.

Evacuate all personal, including emergency services, for 150 feet (46 meters) in all directions. Ammunition fires are noisy, but can be safely and effectively extinguished by firefighters using standard fog nozzles. The fragments are of low velocity and the standard fire fighting equipment, including face shields will provide protection.

STABILITY INFORMATION

- (a) Mechanical shock or Impact: - Can detonate based on primer.
- (b) Electrical (static) discharge: - Can detonate based on primer.
- (c) Cartridge may detonate if case is punctured or severely damaged based on primer.
- (d) Incompatible materials: - Strong Acids and Caustics.
- (e) Hazardous decomposition products: - Nitrogen Oxides, Carbon monoxide, Carbon Dioxide, Lead oxides, Lead dust or fumes.

TRANSPORTATION INFORMATION

This material is regulated as **DOT** Hazardous material.

DOT description from the hazardous materials table 49 CFR 172.101:

Land (U.S. DOT): Cartridges, Small Arms, 1.4S, UN0012, PG II

Water (IMO): Same as land.

Air (IATA/ICAO): Same as land.

Hazard Label/Placard: Non* / 1.4S via Air

Reportable Quantity: Not applicable (per 49 CFR 172.101, Appendix)

Emergency Guide No 50

FIRST AID MEASURES

EYES:

Remove person to fresh air. If wearing contact lenses remove lenses immediately. If affected by particles hold eyelids apart and flush eyes thoroughly with water for 15 to 20 minutes, occasionally lifting the upper and lower eyelids. If irritation develops obtain medical attention immediately.

SKIN:

Wash affected skin thoroughly with soap and water.

INHALATION:

If symptoms of lung irritation occur remove victim to fresh air immediately. If breathing has stopped, perform artificial respiration and get medical attention immediately. Keep affected person warm and at rest.

INGESTION:

If ingested, call physician immediately.