

Safety Data Sheet

according to WHS Regulations

Printing date 29.06.2020

Revision: 29.06.2020

1 Identification

Product Name: CARTRIDGES, POWER DEVICES**Other Means of Identification:** Mixture**Other Name:** Rimfire Cartridge for Power Device 22, 25, 27 Caliber Powertool Round Power Load**Recommended Use of the Chemical and Restriction on Use:** Powertool loaded round**Details of Manufacturer or Importer:**Mitchell Engineering Food Equipment
23 Storie Street,
Clontarf ,QLD, 4019**Phone Number:** 07 3283 4536**Emergency telephone number:** National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



exploding bomb

Explosives 1.4 H204 Fire or projection hazard.



skull and crossbones

Acute Toxicity (Oral) 3 H301 Toxic if swallowed.

Acute Toxicity (Dermal) 2 H310 Fatal in contact with skin.

Acute Toxicity (Inhalation) 3 H331 Toxic if inhaled.



health hazard

Toxic To Reproduction 1A H360Df May damage the unborn child. Suspected of damaging fertility.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Signal Word Danger**Hazard Statements**

H204 Fire or projection hazard.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 29.06.2020

Revision: 29.06.2020

Product Name: CARTRIDGES, POWER DEVICES

(Contd. of page 1)









- H301 Toxic if swallowed.
 H310 Fatal in contact with skin.
 H331 Toxic if inhaled.
 H315 Causes skin irritation.
 H360Df May damage the unborn child. Suspected of damaging fertility.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P240 Ground/bond container and receiving equipment.
 P250 Do not subject to grinding/shock/friction.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P262 Do not get in eyes, on skin, or on clothing.
 P264 Wash hands 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.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P321 Specific treatment (see on this label).
 P330 Rinse mouth.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P370+P380 In case of fire: Evacuate area.
 P372 Explosion risk in case of fire.
 P373 DO NOT fight fire when fire reaches explosives.
 P374 Fight fire with normal precautions from a reasonable distance.
 P391 Collect spillage.
 P401 Store in accordance with local/regional/national regulations.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 9004-70-0	Cellulose, nitrate  Explosives 1.1, H201;  Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H336	8 - 13%
CAS: 55-63-0	Glycerol trinitrate  Unstable Explosive, H200;  Flammable Liquids 2, H225;  Acute Toxicity (Oral) 2, H300; Acute Toxicity (Dermal) 1, H310; Acute Toxicity (Inhalation) 2, H330;  STOT RE 2, H373;  Aquatic Chronic 2, H411	4 - 7%
CAS: 7440-50-8	Copper  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1 - 3%

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 29.06.2020

Revision: 29.06.2020

Product Name: CARTRIDGES, POWER DEVICES

(Contd. of page 2)

CAS: 84-74-2	Dibutyl phthalate ☠ Toxic To Reproduction 1B, H360Df; ☠ Aquatic Acute 1, H400	0.5 - 2%
CAS: 15245-44-0	Lead styphnate ☠ Unstable Explosive, H200; ☠ Toxic To Reproduction 1A, H360Df; STOT RE 2, H373; ☠ Aquatic Chronic 1, H410; ☠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Inhalation) 4, H332	0 - 1%
CAS: 10022-31-8	Barium nitrate ☠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Inhalation) 4, H332	0 - 1%

4 First Aid Measures

Inhalation:

Not normally a hazard due to physical form of product. If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

Not normally a hazard due to physical form of product. In case of skin contact wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

Not normally a hazard due to physical form of product. In case of eye contact, rinse cautiously with water for several minutes. Seek medical attention if symptoms occur.

Ingestion:

Seek medical attention if symptoms occur. If swallowed, rinse mouth with water. Give a glass of water. Seek medical attention if symptoms occur.

Symptoms Caused by Exposure:

Inhalation: Toxic if inhaled. May cause respiratory irritation, headache, nausea, vomiting and mental confusion.

Skin Contact: Fatal in contact with skin. Causes skin irritation.

Eye Contact: May cause eye irritation and inflammation of the conjunctiva, possibly resulting in permanent vision impairment.

Ingestion: Toxic if swallowed. May cause gastrointestinal irritation.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water fog, sand, earth or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, nitrogen and lead and lead dust.

Fire or projection hazard. Do not fight fire if fire reaches product. Use water from unmanned stations if fire reaches containers.

Containers close to fire should be removed if safe to do so.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 29.06.2020

Revision: 29.06.2020

Product Name: CARTRIDGES, POWER DEVICES

(Contd. of page 3)

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so. Sweep into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation.

7 Handling and Storage

Precautions for Safe Handling:

Fire or projection hazard.

May damage the unborn child. Suspected of damaging fertility. Pregnant women should not handle contents of the cartridges.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from acids and bases.

Shelf-life: 20 - 25 years.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 55-63-0 Glycerol trinitrate**

WES	TWA: 0.46 mg/m ³ , 0.05 ppm
	Sk

CAS: 7440-50-8 Copper

WES	TWA: 1* 0.2** mg/m ³
	*dust&mists **fume

CAS: 84-74-2 Dibutyl phthalate

WES	TWA: 5 mg/m ³
-----	--------------------------

CAS: 10022-31-8 Barium nitrate

WES	TWA: 0.5 mg/m ³
	as Ba

Engineering Controls: Natural ventilation should be adequate under normal use conditions.

Respiratory Protection: Respiratory protection is not required under normal use conditions.

Skin Protection: Skin protection is not required under normal use conditions.

Eye and Face Protection:

Eye and face protectors are recommended. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:	Cylindrical steel cartridge
Form:	Solid
Colour:	No information available
Odour:	No information available
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	No information available

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 29.06.2020

Revision: 29.06.2020

Product Name: CARTRIDGES, POWER DEVICES

(Contd. of page 4)

Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	No information available
Partition Coefficient (n-octanol/water):	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.
Fire or projection hazard.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames and other sources of ignition.

Incompatible Materials: Acids and bases.

Hazardous Decomposition Products: Oxides of carbon, nitrogen and lead and lead dust.

11 Toxicological Information

Toxicity:**LD50/LC50 Values Relevant for Classification:****CAS: 9004-70-0 Cellulose, nitrate**

Oral	LD50	>5,000 mg/kg (mouse)
		>5,000 mg/kg (rat)

CAS: 55-63-0 Glycerol trinitrate

Oral	LD50	525 mg/kg (rat)
Dermal	LD50	>9,560 mg/kg (rat)

CAS: 7440-50-8 Copper

Oral	LD50	>2,000 mg/kg (rat)
------	------	--------------------

CAS: 84-74-2 Dibutyl phthalate

Oral	LD50	8,000 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

CAS: 10022-31-8 Barium nitrate

Oral	LD50	355 mg/kg (rat)
------	------	-----------------

Acute Health Effects**Inhalation:**

Toxic if inhaled. May cause respiratory irritation, headache, nausea, vomiting and mental confusion.

Skin: Fatal in contact with skin. Causes skin irritation.

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 29.06.2020

Revision: 29.06.2020

Product Name: CARTRIDGES, POWER DEVICES

(Contd. of page 5)

Eye:

May cause eye irritation and inflammation of the conjunctiva, possibly resulting in permanent vision impairment.

Ingestion: Toxic if swallowed. May cause gastrointestinal irritation.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Lead compounds, organic are classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: May damage the unborn child. Suspected of damaging fertility.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

CAS: 9004-70-0 Cellulose, nitrate

LC50/96 h	1.228 mg/l (bluegill)
-----------	-----------------------

CAS: 55-63-0 Glycerol trinitrate

EC50/96 h	1.15 mg/l (selenastrum capricornutum)
-----------	---------------------------------------

LC50/96 h	3.58 mg/l (fathead minnow)
-----------	----------------------------

	1.9 mg/l (rainbow trout)
--	--------------------------

LC50/48 h	17.8 mg/l (daphnia)
-----------	---------------------

CAS: 7440-50-8 Copper

EC50/48 h	0.792 mg/l (daphnia)
-----------	----------------------

EC50/72 h	0.333 mg/l (algae)
-----------	--------------------

LC50/96 h	0.0068-0.0156 mg/l (fathead minnow)
-----------	-------------------------------------

	0.0081 mg/l (fish)
--	--------------------

CAS: 15245-44-0 Lead styphnate

LC50/48 h	0.074 mg/l (daphnia)
-----------	----------------------

Persistence and Degradability: Product is not biodegradable.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: Lead may be mobile in soil.

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 29.06.2020

Revision: 29.06.2020

Product Name: CARTRIDGES, POWER DEVICES

(Contd. of page 6)

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number**ADG, IMDG, IATA**

UN0323

Proper Shipping Name**ADG, IMDG, IATA**

CARTRIDGES, POWER DEVICE

Dangerous Goods Class**ADG Class:**

1.4S

Packing Group:

Not applicable

Marine pollutant:

No

EMS Number:

F-B,S-X

Special Provisions:

347

Limited Quantities:

0

Packagings & IBCs - Packing Instruction: P134, LP102

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 9004-70-0	Cellulose, nitrate
CAS: 55-63-0	Glycerol trinitrate
CAS: 7440-50-8	Copper
CAS: 84-74-2	Dibutyl phthalate
CAS: 7440-66-6	Zinc
CAS: 15245-44-0	Lead styphnate
CAS: 10022-31-8	Barium nitrate

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule: Not Scheduled.

16 Other Information

Date of Preparation or Last Revision: 29.06.2020**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

(Contd. on page 8)

Safety Data Sheet

according to WHS Regulations

Printing date 29.06.2020

Revision: 29.06.2020

Product Name: CARTRIDGES, POWER DEVICES

(Contd. of page 7)

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Explosives 1.1: Explosives – Division 1.1

Explosives 1.4: Explosives – Division 1.4

Unstable Explosive: Explosives – Unstable explosive

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity (Oral) 2: Acute toxicity – Category 2

Acute Toxicity (Oral) 3: Acute toxicity – Category 3

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Acute Toxicity (Dermal) 1: Acute toxicity – Category 1

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Toxic To Reproduction 1A: Reproductive toxicity – Category 1A

Toxic To Reproduction 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - May 2018”

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Mitchell Engineering Food Equipment makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.