

1. IDENTIFICATION OF SUBSTANCE & COMPANY

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval **HSR100249** – Cartridges, Power device).

Product

Product Name	Captive Bolt Activator 50pk 201073 – Green 201074 – Yellow 201072 – Blue 210217 – Red
HSNO Approval	HSR100249
Intended Use	Professional use – Livestock stun blanks
Approval Description	Cartridges, Power Device
UN Number	UN0323
DG Class	1.4S

Supplier Details

Company	Shoof International Ltd	
Address	224 Laurent Road, Cambridge 3493 New Zealand	1 International Square Tullamarine, VIC 3043 Australia
Telephone	+64 7 827 3902 (NZ)	+61 3 9907 3000 (AU)
Website	www.shoof.co.nz	www.shoof.com.au
Emergency Contact (NZ)	0800 POISON (0800 764 766)	
Emergency Contact (AU)	13 11 26	

2. HAZARD IDENTIFICATION

The substance has been classified as hazardous according to the criteria in the Hazardous substance (Minimum Degrees of Hazard) Notice 2017.

GHS Classification



Hazard Classes

Explosive substances/mixtures and articles Division 1.4.

Hazard Statements

H204 Fire or projection hazard.

Precautionary Statements

Signal word	WARNING	
Precautionary Statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P234	Keep only in original container

	P250	Do not subject to grinding/shock/friction...
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P370+P380	In case of fire: Evacuate area
	P374	Fight fire with normal precautions from a reasonable distance.
Storage	P401	Store in accordance with national regulations
Disposal	P501	Dispose of contents/container in accordance with local regional/ national and international regulations.

Other hazards:

This article contains hazardous substances or mixtures not intended to be released under normal or reasonably foreseeable conditions of use.

Adverse physicochemical effects:

This article can be ignited by heat, sparks, flames or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

Adverse human health effects and symptoms:

The dismantling of the article is prohibited. Please observe in any case the safety information

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant Hazardous Substances regulations.

Substance Name	EG-No.	REACH-Reg. – No.	Index-No.	CAS-No.	Concentration (%)	Classification according to regulation (EC) No. 1272/2008		Classification according to Directive 67/548/EEC
						Hazard classes/ Hazard categories	Hazard statements	
Nitroglycerine	200-240-8	Unknown	603-034-00-x	55-63-0	3 – 10	Unst. Expl. Acute Tox. 1 STOT RE 2 Aquatic chronic 2	200 300,310,330 373 411	Explosive Very toxic Dangerous for the environment 3-26/27/28-33-51/53
Diphenylamine	204-539-4	Unknown	612- 026-00- 5	122-39- 4	0,1 – 1	Acute Tox. 3 STOT RE 2 Aquatic acute 1 Aquatic chronic 1	301, 311, 331 373 400 410	Toxic Dangerous for the environment 23/24/25-33-50/53
Lead styphnate	239-290-0	01-2119543737-30-0000	609-019-00-4	15245-44-0	0,1 – 1	Unst. Expl. Repr. 1A Acute Tox. 4 STOT RE 2 Aquatic acute 1 Aquatic chronic 1	200 360Df 302, 332 373 400 410	Explosive Toxic Dangerous for the environment 61-3-20/22-33-50/53-62

Remark:

Further ingredients are below the limits of consideration according to regulation 1999/45/EC or possess only physicochemical properties. Full text of R-, H- and EUH-phrases: see section 16.

4. FIRST AID

4.1 General Information

If medical advice is needed, have product container or label at hand. Call the National Poisons Centre or your doctor if you feel that you may have been harmed or irritated by the product.

First aid measures only required by release of ingredients or generation of decomposition products. Medical treatment necessary. Remove contaminated clothing immediately.

4.2 Description of First Aid Measures

After Inhalation: In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. Apply cortisone spray at early stage. Call a doctor if you feel unwell.

After Skin Contact: After contact with skin, wash immediately with soap and plenty of water.

After Eye Contact: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After Ingestion: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. **DO NOT** induce vomiting.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

Notes for Doctor: **If decomposition products are inhaled the following symptoms can occur:**

- Unconsciousness, impaired consciousness, cyanosis (blue coloured blood), vomiting, cardiac arrhythmias, headache, spasms, circulatory collapse, dizziness, impairment or vision, nausea.

Treatment:

- Supervise the blood circulation. Regulation of the blood circulation, possible shock treatment.
- Where appropriate, artificial ventilation.
- In case of bluish discolouration (lips, earlobes, finger nails) give oxygen as soon as possible.
- In case of lung irritation: Primary treatment by using corticoid spray (e.g. Auxiloson spray, Pulmicort-dosage-spray. Auxiloson and Pulmicort are registered trademarks.)

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: Water and extinguishing powder from safe distance at fire in the surroundings.

Extinguishing media which must not be used for safety reasons: not applicable.

5.2 Special hazards arising from the substances or mixture

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂), Nitrous gases (NO_x)

5.3 Advice for Firefighters

Protective equipment: Wear a self-contained breathing apparatus and chemical protective clothing.

Other information:

Do not inhale explosion and combustion gases. Co-ordinate fire-fighting measures to the fire surroundings. Do not allow run-off from firefighting to enter drains or water courses. Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Avoid generation of dust. Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove persons to safety.

See protective measures under Section 7 and 8.

6.2 Environmental precautions

Do not allow to enter soil/subsoil.

Do not allow to enter surface water or drains.

6.3 Methods for cleaning up

Suitable material for taking up: Water

Take up mechanically, placing in appropriate containers for disposal.

Avoid generation of dust.

7. STORAGE HANDLING

Precaution for safe handling

It is recommended to design all work processes always so that the following is excluded: Inhalation of dust/particles, skin contact, eye contact, depositing of dust. Working places should be designed allow cleaning at any time.

Technical Measures

Provide adequate ventilation as well as local exhaustion at critical locations.

Precaution against fire and explosion

The article is: **explosive**.

Keep away from sources of ignition - No smoking.

Handle with care - avoid bumps, friction and impact.

Wear anti-static footwear and clothing.

Take precautionary measures against static discharges.

Conditions for safe storage including incompatibilities

Store locked up - Store in a place accessible by authorised personnel only. Keep/store only in original container.

Storage temperature: 0°C (32°F) to + 30°C (86°F)

Recommended storage temperature: + 20°C (68 °F);

Relative air humidity (%): max. 60

Hints on joint storage

DO NOT store together with inflammable or other substances that mean an increase of risk. Observe in addition any national regulations.

Storage Class

Explosive substances

Storage class: 1.4

Compatibility group: S

8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

8.1 Exposure Control Limits

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Std	Ingredient	WES-TWA	WES-STEL
	Nitroglycerine	0.01ppm, 0.63 mg/m ³	Data unavailable
	Diphenylamine	5 mg/m ³	10mg/m ³

Lead styphnate	0.05 mg/m ³ Lead dust and fumes.	Data unavailable
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Preventive industrial medical examinations are to be offered for professional users.

Occupational exposure limits (OEL)

CAS-No. EC-No.	Limit value type (country of origin)	Substance name	OEL		Peak limitation	Remarks / Source
			ml/m ³	mg/m ³		
630-08-0 211-128-3	AGW (DE)	Carbon monoxide	30	35	1(II)	TRGS 900
124-38-9 204-696-9	AGW (DE)	Carbon dioxide	5000	9100	2(II)	TRGS 900
	AGW (DE)	A: Alveolar fraction E: Respirable fraction		3 10	2(II)	TRGS 900

Biological occupational exposure limit values

CAS-No. EC-No.	Limit value type (country of origin)	Substance name	Parameter	Limit value	Test material	Remarks / Source
630-08-0 211-128-3	BGW (DE)	Carbon monoxide	CO-Hb	5 %	Whole blood (B)	TRGS 903

8.2 Exposure Controls

Technical measures to prevent exposure

See section 7. Any further measures are not necessary.

Personal protection equipment

Respiratory protection:

- No personal respiratory protective equipment normally required.
- Dust formation: Filtering Half-face mask (DIN EN 149) FFP2.
- A respirator when airborne concentrations approach WES (section 8).
- Respirators must have filters appropriate to the duty and comply with AS/NZ 1716 and selected, used and maintained in accordance with AS/NZ1715/ Use a respirator with a dust/particulate filter. In using a respirator, ensure that the cartridge is correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

Hand protection:

- Hand protection is not required.

Eye protection:

- Eyeglasses with side protection or visor made of safety glass.

Protective Clothing

- Wear anti-static footwear and clothing.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

GENERAL INFORMATION	
Appearance	Blanks / Cartridges
Smell	No data
Olfactory threshold	No data
Melting point/ freezing point	No data
Boiling point or initial boiling range	No data

Flash Point	No data
Flammability	No data
pH	No data
Vapour pressure and density	No data
Specific gravity density	No data
Solubility	No data
Partition coefficient	No data
Auto-ignition temperature	No data
Decomposition temperature	No data

10. STABILITY & REACTIVITY

Containers should be kept closed in order to avoid contamination.

10.1 Conditions to avoid

Keep from extreme heat and open flames – handle with care – avoid bumps, friction and impact.

- In case of warming: Danger of explosion.
- In case of impact or pressure influence: Danger of explosion
- Reaction takes place at temperatures above: 150 °C (302 °F)

10.2 Materials to avoid

- Reaction: Acid, Alkali

10.3 Hazardous decomposition products

- Thermal decomposition can lead to the escape of irritating gases and vapours.
- Exothermal decomposition with formation of carbon monoxide, carbon dioxide, nitrous gases (NO_x), metal oxides

11. TOXICOLOGICAL INFORMATION

No harmful effects are to be expected if used properly. The contained ingredients can be harmful for humans, but they are hermetically enclosed in the article and cannot be released. The dismantling of the article is prohibited.

The propellants in this cartridge may have the following health effects:

- Harmful if swallowed, may cause nausea and vomiting.
- Irritating to skin and eyes.

12. ECOLOGICAL DATA

No harmful effects are to be expected if used properly. The contained ingredients can be harmful for the environment, but they are hermetically enclosed in the article and cannot be released. The dismantling of the article is prohibited.

13. DISPOSAL CONSIDERATIONS

There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.

13.1 Waste Treatment Methods

Disposal method

Disposal of this product must comply with the Hazardous Substance (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment. Do not deposit in a landfill or sewage facility. Do not detonate to dispose of this substance.

Contaminated Packaging

Disposal of contaminated packaging must comply with the Hazardous Substance (Disposal) Notice 2017 clause 12. Ensure that the packaging is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the packaging.


Uncontaminated Packaging

If possible, reuse or recycle packaging (if acceptable under the local council rules).

14. TRANSPORT INFORMATION

Land Transport Rule: Dangerous Goods 2005 – NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substance on Land) – Considered a dangerous good for transport.

14.1	UN number or ID number ADR/RID, IMDG, ICAO-TI/IATA-DGR	UN0323
14.2	UN proper shipping name ADR/RID, IMDG, ICAO-TI/IATA-DGR	Cartridges, power device
14.3	Transport hazard class(es) ADR/RID, IMDG, ICAO-TI/IATA-DGR	
	Class	1.4S
14.4	Packing group ADR/RID, IMDG, ICAO-TI/IATA-DGR	II
14.5	Environmental hazards Marine pollutant	No
14.6	Special precautions for user <u>ADR/RID</u> Special provision Limited quantity Tunnel restriction code EmS-No.	347 0 E Not applicable
	<u>IMDG</u> Special provision Limited quantity Tunnel restriction code EmS-No.	347 0 Not applicable F-B, S-X
	<u>ICAO-TI/IATA-DGR</u> Special provision Limited quantity Tunnel restriction code EmS-No.	A165, A802 Forbidden Not applicable Not applicable
14.7	Maritime transport in bulk according to IMO instruments	Not applicable
14.8	Packaging (Permitted packing according to packing instruction)	

	ADR/RID, IMDG ICAO-TI, IATA-DGR	P134 134
	Inner Intermediate Outer	e.g receptacles of plastic, fibreboard not required type approved and authorised box of packing group II, e.g., of fibreboard (4G) or natural wood, ordinary (4C1)
14.9	Information of mass	
	Net explosive quantity (NEQ) per particle	Max. 0,5g
	Total mass per article	Max. 2,6g

15. REGULATORY INFORMATION

In **New Zealand**, the use of this product may come under the Resource Management Act and Regulations, the **Health and Safety at Work Act 2015** and local Council Rules and Regional Council Plans.

In **Australia**, this product is classified as Dangerous Goods under the **Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)** and subject to regulation under the Explosives Act and relevant State/Territory Dangerous Goods Legislation.

Workplace use must comply with Safe Work Australia's Model Work Health and Safety (WHS) Regulations and any applicable State/Territory WHS law.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road).

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).

Review

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Disclaimer:

This SDS is prepared by Shoof International Ltd. and is based on our current state of knowledge, including information obtained from the supplier. The SDS is given in good faith and constitutes a guideline (not guarantee of Safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) **AND HOW THE SUBSTANCE IS USED**. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSN0 and GHS classification for this SDS has been estimated based on general information from the supplier (such as hazard, toxicological).