

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Cycure®**
 Product Use: Pencycuron
 Restriction of Use: Refer to Section 15
 New Zealand Supplier: **Agrisource 2000 Ltd**
 Address: 45 Kitchener Road
 Pukekohe, Auckland
 Telephone: +64 9 237 0422
Emergency No: 0800 764 766 (National Poison Centre)
 Date of SDS Preparation: 17 March 2023

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR000608

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P273	Avoid release to the environment.

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	Store in original container tightly closed and in a locked, dry, cool, well ventilated area away from fertilisers, feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with NZ 8409 Management of Agrichemicals.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3.	Composition / Information on Hazardous Ingredients
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Ingredients	Wt%	CAS NUMBER.
Pencycuron	25	66063-05-6
1,2-ethanediol	4	107-21-1
Other inert ingredients	To Balance	-

Section 4.	First Aid Measures
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Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
If Swallowed	Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed.

Symptoms: May cause damage to organs through prolonged or repeated exposure.

Notes to physician Treat symptomatically.

Section 5.	Fire Fighting Measures
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Hazard Type	This product is non-flammable, non-explosive and is non-combustible.
Hazards from decomposition products	In the event of fire, the formation of hydrogen cyanide, hydrogen chloride, carbon monoxide and nitrogen oxides may occur.
Suitable Extinguishing media	Dry chemical extinguisher, foam, carbon dioxide or water spray.
Precautions for firefighters and special protective clothing	Wear protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases. Run-off from fire control may be a pollution hazard.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

- Personal precautions:** Avoid contact with skin and eyes. Do not inhale dust or spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when cleaning up spill. Wash hands and face once spill has been cleaned up.
- Environmental precautions:** Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
- Methods for cleaning up:** In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of contained wastes in accordance with the requirements of Local Authorities.

Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable. Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- When mixing or applying, avoid contact with skin and eyes and inhalation of concentrate or spray mist.
- Do not eat or drink while using.
- Wear protective clothing, gloves and goggles. See section 8.
- Wash protective clothing after work.
- Avoid release to the environment.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in a cool, dry, well ventilated place and protect from sunlight.
- Keep from contact with fertilizers, insecticides, fungicides and seeds.
- Keep out of reach of children.
- Store in original container, tightly closed, away from foodstuffs.
- This product may cause dust explosion, if water soluble bag is broken.

Section 8. Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL		Ceiling	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1,2-ethanediol (Vapour and mist) (Ethylene glycol)	-	-	-	-	50	127

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

Use in well ventilated areas.

Personal Protection Equipment



Eyes	Wear chemical goggles or face shield.
Skin	When opening the container, preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.
Respiratory	Where insufficient ventilation, use suitable respiratory protection.
General Hygiene	Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

Section 9. Physical and Chemical Properties

Appearance	Liquid
Colour	Beige
Odour	Slightly characteristic
Odour Threshold	Not available
pH	8.5
Boiling Point	>100°C
Melting /Freezing Point	Not available
Flash Point	Does not flash (non-flammable)
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	Approx. 1.09
Solubility	Miscible in water
Octanol/water partition coefficient:	Not available
Auto-ignition Temperature	Not self-igniting
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Octanol/Water Particle Coefficient	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions of use.
Possibility of hazardous reactions	None expected.
Conditions to Avoid	Direct sunlight, extreme heat or Cold.
Incompatible Materials	None expected when stored and handled according to the label.
Hazardous Decomposition Products	In the event of fire, the formation of hydrogen cyanide, hydrogen chloride, carbon monoxide and nitrogen oxides may occur.

Section 11. Toxicological Information

Acute Effects: Pencycuron

Swallowed	LD50: 5000mg/kg (Rat)
Dermal	LD50: 5000mg/kg (Rat)
Inhalation	LC50: Data Lacking – not classified
Eye	Non irritating (rabbit)
Skin	Non irritating (rabbit)
Contact Sensitisation	Not sensitizing

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Harmful to human target organs (kidney, heart, vascular system) on prolonged or repeated exposure via ingestion.

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.

Product:	
Persistence and degradability	Not rapidly degradable.
Bioaccumulation	Not bioaccumulative.
Mobility in Soil	No data available
Other adverse effects	No data available

Data for technical active ingredient Pencycuron:

Aquatic:

Toxicity to fish: LC50 (96 h) >1000mg/l rainbow trout
Toxicity to daphnia: EC50 (48 h) >1mg/L, daphnia magna (pencycuron)
Toxicity to algae: IC50 (72 h) >562mg/L, green algae

Section 13. Disposal Considerations

Disposal Method:

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.

Container Disposal: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

Precautions or methods to avoid: Avoid release to the environment.

Section 14. Transport Information

This product is classified as a **Dangerous Good for transport in NZ; NZS 5433:2012**



Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PENCCYURON)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15. Regulatory Information

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR000608

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	1000L
Emergency Response Plan (Schedule 5)	1000L
Secondary Containment (Schedule 5)	1000L
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not required
Restrictions of use	Refer to EPA website for full control details www.epa.govt.co.nz
HPC Notice Part 4 Subpart B	-
ACVM Registration Number (See www.foodsafety.govt.nz for registration Conditions).	P8399

Section 16. Other Information**Glossary**

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the Agrisource 2000 Ltd, if further information is required.

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