

SAFETY DATA SHEET

Cyclase

Section 1: Identification of the Substance and Supplier

Product Name:	Cyclase
ACVM Registration Number:	A10490
Pack sizes:	100mL
Recommended Use:	For luteolysis of functional corpora lutea in cows, sows and mares. Manipulation of oestrus cycles, treatment of retained foetal membranes, pyometra or chronic endometritis and induction of abortion and parturition in cows.
Company Details:	AgriHealth NZ Ltd 89 Grafton Road, Grafton, Auckland 1010, New Zealand Phone: +64 9 215 1199 Fax: +64 9 984 9455 Website: www.agrihealth.co.nz
Emergency Telephone:	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111

Section 2: Hazards Identification

Classified as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Cyclase is approved pursuant to the HSNO Act 1996, **HSR002169**. The EPA website www.epa.govt.nz should be consulted for the full list of triggered controls and cited regulations.

Hazard Classifications: 6.8A (reproductive toxin)
6.9A (target organ toxin)

Signal word: DANGER

Hazard statements: May damage fertility or the unborn child
May cause respiratory problems including bronchospasm.

Precautionary statements:

- Read label before use
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Do not breathe mist or spray
- Wash hands and exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- IF exposed or concerned: Call the National Poisons Centre 0800 POISON (0800 764 766) or a doctor/physician
- Store locked up

Section 3: Composition / Information on Ingredients

Product Components:

Name	CAS Number	Concentration
Cloprostenol sodium	55028-72-3	0.3%
Non-hazardous components	N/A	99.7%

N/A = not applicable or not available

Section 4: First Aid Measures

First Aid Measures:

For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor, immediately.

Skin Contact: If skin contact occurs remove contaminated clothing and wash skin with soap and water. If skin irritation, rash or symptoms occur or persist, consult a doctor.

Eyes: If eye contact occurs, flush eyes with water. If wearing contact lenses, remove only after initial rinse and continue rinsing. If irritation occurs or persists, consult a doctor.

Ingestion: If swallowed seek medical attention. DO NOT induce vomiting.

Inhalation: Remove to fresh air. If symptoms occur or persist, consult a doctor.

Workplace Facilities: No special facilities are required.

Required Instructions:

- Observe good work practices and avoid skin contact.
- Wash hands and exposed skin before meals and after use.
- Do not eat or drink while using.
- Do not breathe mist or spray.

Notes for Medical Personnel: Cloprostenol is a synthetic prostaglandin F2-alpha analogue that has potent luteolytic effects. It may cause reproductive or respiratory effects associated with prostaglandin modulators. Treat exposed patients symptomatically.

Section 5: Fire Fighting Measures

Type of hazard:	Non-flammable
Fire Hazard Properties:	May emit toxic fumes when exposed to or heat or fire.
Extinguishing Media and Methods:	Water, dry chemical, carbon dioxide, or foam
Hazchem Code:	Not applicable
Recommended Protective Clothing:	Wear full protective clothing and self-contained breathing apparatus (SCBA)

Section 6: Accidental Release Measures

Emergency Procedures:	Wear suitable protective clothing. Restrict access to contaminated area. Prevent further spillage. Retrieve intact containers from site. Place damaged containers into containment devices. Absorb spilled product with inert material. Sweep and place in sealable containers for disposal. Wash the area with water and detergent. Absorb washings and place in the same sealable container for disposal. Avoid contamination of water courses or sewers. Dispose of waste safely.
------------------------------	--

Section 7: Handling and Storage

Precautions for Safe Handling:	Wear protective gloves and clothing. Avoid contact with skin, eyes and mucous membranes.
Regulatory Requirements:	Not applicable
Handling Practices:	When handling, use protective clothing and impervious gloves. Avoid skin contact. Wash hands and exposed skin thoroughly after handling and before meals. Do not eat, drink or smoke while using this product.
Certified Handlers:	Not required
Conditions for Safe Storage:	Store below 25°C. Store in the original container in a dry place, away from direct heat or direct sunlight. Keep out of reach of children.
Store Site Requirements:	This product requires an emergency response plan and secondary containment when stored in quantities of 10,000L or more. This product does not require signage when stored in any quantity.
Packaging:	Store in original container, away from foodstuffs.

Section 8: Exposure Control / Personal Protection

Workplace Exposure Standards:	None set
Application in the Workplace:	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin contact. When handling use protective clothing and impervious gloves. Avoid skin contact. Wash hands and exposed skin thoroughly after handling.
Exposure Standards outside the Workplace:	None set
Engineering Controls:	Ensure adequate ventilation.
Personal Protection:	Wear protective gloves and clothing. Do not eat, drink or smoke when using this product. Wash hands with soap and water before breaks and after work. Keep away from foodstuffs and beverages.

Section 9: Physical and Chemical Properties

Product Properties:	<u>Appearance:</u>	Clear liquid
	<u>pH:</u>	6.0 – 7.0
	<u>Specific Gravity:</u>	1.003 – 1.008
	<u>Vapour Pressure:</u>	N/A
	<u>Solubility in Water:</u>	Soluble
	<u>Boiling Point:</u>	N/A
	<u>Melting Point:</u>	N/A

Section 10: Stability and Reactivity

Stability of the Substance:	Stable under normal conditions of use and storage
Conditions to Avoid:	No specific conditions to avoid
Material to Avoid:	No specific materials to avoid
Hazardous Decomposition Properties:	No significant quantities of decomposition products are expected, at temperatures normally achieved in a fire
Hazardous Polymerisation:	Components are not expected to form hazardous polymers

Section 11: Toxicological Information

HSNO Classification:	6.8A, 6.9A
-----------------------------	------------

Cloprostenol is toxic by inhalation, absorption and ingestion. Possible side effects may include bronchospasm, characterized by difficulty breathing, premature menstruation, induction of labour or abortion. Cloprostenol may also have other chronic health effects (eg on heart, digestion and eyes).

Acute toxicity:

Oral, rat:	Cloprostenol sodium: LD50 >25mg/kg
Dermal/Inhalation:	No data
Eye irritant:	Not considered an eye irritant
Skin irritant:	Not considered a skin irritant
Target organ toxicant:	Cloprostenol sodium has the potential to induce acute bronchoconstriction, cardiovascular effects, inhibition of gastric secretion and changes in intraocular fluid pressure.

Chronic toxicity:

Sensitisation:	Not a sensitizer
Mutagenicity:	Not a mutagenic agent
Carcinogenicity:	Not a carcinogenic agent
Reproductive/developmental:	The mixture is considered to be a known reproductive or developmental toxicant from single exposure. Cloprostenol sodium is a prostaglandin analogue. Pregnant women and women of child bearing age should use extreme caution when handling this product as cloprostenol has the potential to induce abortion.

Aggravation of existing conditions: Asthma, bronchial disease, may affect pregnancy.

Section 12: Environmental Information

HSNO Classification: Not toxic to the environment

Section 13: Disposal Considerations

Disposal Information: Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Avoid contamination of any water supply with product or empty container.

Section 14: Transport Information

Land Transport Not classified as dangerous goods for transport under NZ Standard 5433:2007 Transport of Dangerous Goods on Land.

Air Transport Not classified as dangerous goods for transport under International Civil Aviation Organisation and International Air Transport Association regulations

Sea Transport	Not classified as dangerous goods for transport under International Maritime Organisation regulations
UN Number	N/A
Proper Shipping Name	N/A
DG Class	N/A
Subsidiary Risk	N/A
Packing Group	N/A
HAZCHEM Code	N/A
Marine Pollutant	No

There is no restriction on the quantity of this substance allowed for carriage on public service vehicles.

Section 15: Regulatory Information

Regulatory Status: Registered pursuant to the ACVM Act 1997, No A10490
See www.foodsafety.govt.nz for registration conditions

HSNO and ACVM Controls: Refer to section 2

List Exposure Limits: None set

An SDS must be provided whenever **0.1L** of Cyclase is sold or supplied.

An emergency response plan and secondary containment is required when stored in quantities of 10,000L or more.

Section 16: Other Information

Additional Information: For product information see the AgriHealth website:
www.agrihealth.co.nz

Date of preparation: 19 October 2020

Due for revision within 5 years.

The SDS summarises, at the date of issue, AgriHealth's best knowledge of the health and safety hazard information. Although reasonable care has been taken in the preparation of this document, AgriHealth NZ Ltd extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. AgriHealth NZ Ltd urges the recipient of this SDS to study it carefully to become aware of, and understand, the hazards associated with the product as well as determine the suitability of the information for the intended purpose.