



SAFETY DATA SHEET

PenethaOne

Date of preparation:
18 August 2022

Section 1: Identification of the Substance and Supplier

Product Name:	PenthaOne
Pack size:	5 MIU vial with 18mL diluent vial 10 MIU vial with 36mL diluent vial
Recommended Use:	For the treatment of mastitis, uterine and respiratory infections and foot-rot in cattle, caused by penicillin-sensitive Gram-positive bacteria.
Company Details:	AgriHealth NZ Ltd Level 2, 89 Grafton Road, Grafton, Auckland 1010, New Zealand Phone: +64 9 215 1199 Website: www.agrihealth.co.nz
Emergency Telephone:	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111

Section 2: Hazards Identification

PenethaOne (powder vial) is assigned to the Veterinary medicines (Limited pack size, finished dose) Group Standard 2020, HSR100757.

The diluent is non-hazardous.

The content of this Safety Data Sheet applies to the powder vial, and the solution of PenthaOne after reconstitution using the diluent.

Hazard Classifications:	Skin sensitisation Category 1
	Aquatic Acute Category 1
	Aquatic Chronic Category 1
	Terrestrial vertebrate toxin

Priority identifier:	WARNING	
Hazard statements:	H317	May cause an allergic skin reaction
	H400/H410	Very toxic to the aquatic environment with long lasting effects Hazardous to terrestrial vertebrates

Precautionary statements:

P261	Avoid breathing dust, mist or spray
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves
P302+352	If on skin: Wash with plenty of soap and water
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash before reuse
P273	Avoid release to the environment
P391	Collect spillage

Section 3: Composition / Information on Ingredients

Powder vial with diluent vial for reconstitution and injection.
Each vial of powder contains 5 MIU or 10 MIU of penethamate hydriodide.
Each vial contains 18mL or 36mL of water and other non-hazardous ingredients.

Product Components:**Powder vial:**

Name	CAS Number	Concentration
Penethamate hydriodide	808-71-9	99.5%
Non-hazardous components	N/A	0.5%

N/A = not applicable or not available

Diluent vial:

Name	CAS Number	Concentration
Water	7732-18-5	95.7%
Non-hazardous components	N/A	4.3%

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.

General: Penethamate is an ester of benzylpenicillin. Penicillins may cause hypersensitivity (allergy) following injection, inhalation, ingestion or skin contact. Do not handle this product if you know you are sensitised, or if you have been advised not to work with such preparations.

Accidental self-injection: Care should be taken to avoid accidental self-injection. If injection occurs, seek medical attention 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 eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.

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

Workplace Facilities: No special facilities are required.

Required Instructions: Wear protective gloves, clothing and eye protection. Contaminated work clothing should not be allowed out of the work place. Wash contaminated clothing before reuse.

Notes for Medical Personnel: Treat exposed patients symptomatically.

Section 5: Fire Fighting Measures

Type of hazard: Non-flammable

Fire Hazard Properties: This material is assumed to be combustible. Under fire conditions this product may emit toxic and/or irritating fumes and gases.

Extinguishing Media and Methods: Water spray, dry powder, carbon dioxide, or foam

Hazchem Code: 2Z

Recommended Protective Clothing: Wear full protective clothing and self-contained breathing apparatus (SCBA)

Section 6: Accidental Release Measures

Emergency Procedures: Wear suitable protective clothing including eye protection. Restrict access to contaminated area. Prevent further spillage, and prevent spilled material from flowing onto adjacent land or into waterways. Retrieve intact containers from site. Place damaged containers into containment devices. Clean the contaminated area with new sponges soaked in water. Place the spillage including sponges into sealable containers 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, clothing, eye and face protection Avoid contact with skin and eyes. People with known hypersensitivity to penicillin should handle the product carefully. Care should be taken to avoid self-injection.
Regulatory Requirements:	An emergency response plan is required when stored in quantities of 100kg or greater. Secondary containment is required when stored in quantities of 100kg or greater. Signage is required for this substance when stored in quantities of 100kg or greater.
Handling Practices:	Avoid skin contact. Wash hands and exposed skin before meals and after use. Do not eat, drink or smoke while using. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
Approved Handlers:	Not required
Conditions for Safe Storage:	Store below 25°C. Store in the original container, away from direct heat or direct sunlight. Keep out of reach of children.
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 contact with skin, and prevent self-injection.
Personal Protection:	Wear protective gloves, eye safety glasses and protective clothing and face protection. 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:	Appearance:	Powder: Fine powder / cream-white / characteristic odour and colour Diluent: Clear colourless liquid
Information concerning the active ingredient:	Solubility in water:	slightly soluble in water (0.96% at 20°C)
	pH:	4.5 – 6.5

Section 10: Stability and Reactivity

Stability of the Substance:	Stable under normal conditions of use and storage
Conditions to Avoid:	Avoid heat, light and moisture
Material to Avoid:	None known

Section 11: Toxicological Information

Penethamate hydriodide:

Acute toxicity:

In laboratory animals, the LD50 of penethamate hydriodide is 2000 mg/kg bw following oral or subcutaneous administration, 300 – 1650 mg/kg bw following intraperitoneal administration, and 30 – 90 mg/kg bw in connection with intravenous administration.

Chronic toxicity:

Sensitisation: May cause an allergic skin reaction

Section 12: Environmental Information

Environmental Classification: Aquatic Acute Category 1
Aquatic Chronic Category 1
Terrestrial vertebrate toxin

Toxicity: No ecological data available for this material. Cross-referenced to penicillin g sodium (69-57-8)

Toxicity to freshwater algae and cyanobacteria: SPECIES: Microcystis aeruginosa Blue-green algae
DURATION: 7 day
ENDPOINT: EC50 POP CHLO
VALUE: 0.006, 0.004 - 0.012 mg/L

Persistence and degradability: Not available

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

Section 15: Regulatory Information

Regulatory Status: Registered pursuant to the ACVM Act 1997, No A11828
See www.foodsafety.govt.nz for registration conditions
Restricted Veterinary Medicine
For use only under the authority or prescription of a veterinarian

PenethaOne (powder vial) is assigned to the **Veterinary medicines (Limited pack size, finished dose) Group Standard 2020, HSR100757**. See epa.govt.nz for details.

Classified as hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

Section 16: Other Information

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

Date of preparation: 18 August 2022
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.