



Date of preparation:
31 October 2017

SAFETY DATA SHEET

Toltrox

Section 1: Identification of the Substance and Supplier

Product Name:	Toltrox
ACVM Registration Number:	A11401
Pack sizes:	1L
Recommended Use:	For the treatment and prevention of coccidiosis in cattle up to 9 months caused by <i>Eimeria bovis</i> or <i>Eimeria zuernii</i> .
Company Details:	AgriHealth NZ Ltd Unit 1.2, 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.

Toltrox is approved pursuant to the HSNO Act 1996, **HSR100757** and **HSR 100758**. The EPA website www.epa.govt.nz should be consulted for the full list of triggered controls and cited regulations.

Hazard Classifications:	6.8B Reproductive toxicant
	6.9B Repeated dose toxin
	9.1B Aquatic ecotoxin
Signal word:	WARNING

Hazard statements: Suspected of damaging fertility or the unborn child
 May cause damage to organs through prolonged or repeated exposure
 Toxic to aquatic life with long lasting effects

Precautionary statements: Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear gloves when handling.
 Wash exposed skin thoroughly after handling
 Store locked up
 Avoid release to the environment
 Collect spillage
 If exposed or concerned: Get medical advice or attention
 Get medical advice or attention if you feel unwell
 For advice call the National Poisons Centre 0800 POISON (0800 764 766)

Section 3: Composition / Information on Ingredients

Product Components:

Name	CAS Number	Concentration
Toltrazuril	69004-03-1	5%
Sodium benzoate	532-32-1	< 0.25%
Sodium propionate	137-40-6	< 0.25%
Sodium lauryl-sulphate	151-21-3	0.5%
Non-hazardous components	N/A	94%

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: May cause irritation. 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: May cause irritation. 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. When heated to decomposition carbon oxides, nitrogen oxides, Sulphur oxides, hydrogen sulphide, hydrogen fluoride or other toxic fumes may be emitted.

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

Hazchem Code: N/A

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. 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.

Regulatory Requirements:	An emergency response plan is required when stored in quantities of 1000L or greater. Secondary containment is required when stored in quantities of 1000L or greater. Signage is required when stored in quantities of 1000L 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.
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. Store locked up so that unauthorised persons do not have access.
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 eyes.
Exposure Standards outside the Workplace:	None set
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:	White to yellowish suspension
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Section 10: Stability and Reactivity

Stability of the Substance:	Stable under normal conditions of use and storage
Conditions to Avoid:	Avoid extremes of heat and light
Hazardous Decomposition Properties:	Carbon oxides, nitrogen oxides, Sulphur oxides, hydrogen sulphide, hydrogen fluoride or other toxic fumes may be emitted.
Hazardous Polymerisation:	Does not occur

Section 11: Toxicological Information

HSNO Classification: 6.8B, 6.9B

Acute toxicity (toltrazuril):

Species	Sex	Route	LD ₅₀
Rat	M	Oral	2200 mg/kg bw
Rat	F	Oral	1740 - 3375 mg/kg bw
Chicken		Oral	700 mg/kg bw
Rat		Inhalation	> 158 mg/m ³ 4 hour
Rat		Dermal	> 5000 mg/kg bw

Skin irritation: Not classified as irritant however may cause irritation.

Eye irritation: Not classified as irritant however may cause irritation.

Chronic toxicity (toltrazuril):

Target organ effects: Rat 3 month oral toxicity study: At highest dose (16.6mg/kg/day) weight gain and food intake were decreased. Slight effects were seen in haematological parameters and disturbances in liver function.
Dog 3 month oral toxicity study: At highest dose (12.5 mg/kg/day) showed increased heart weight but no histological changes or circulatory disturbance. Mean weight of testes and prostate were decreased.

Reproduction: Rat 2 generation study: increase in stillborn pups at highest dose (5mg/kg/day).
Rat teratogenicity studies: Teratogenicity and embryotoxicity see at the highest dose (30mg/kg/day) such as dysplasia of long bones, hydrops, cleft palate, microphthalmia. Reduction in number of live foetuses.

Mutagenicity: Not considered to be mutagenetic

Carcinogenicity: Not considered to be carcinogenic in humans

Section 12: Environmental Information

HSNO Classification: 9.1B

No data is available for the formulated product. The following information relates to toltrazuril.

Toxicity:	<i>Daphnia magna</i> 48-hour EC ₅₀ : > 2 mg/L Rainbow trout (<i>Oncorhynchus mykiss</i>) 96-hour LC ₅₀ : 0.44 mg/L Green algae (<i>Desmodesmus subcapitas</i>) 72-hour LC ₅₀ : >0.39 mg/L Earthworm (<i>Annelid sp.</i>) 52 mg/L
Persistence and degradability:	Metabolite of toltrazuril is persistent and mobile. T _{1/2} : >1 year. Avoid run-off to soil.
Bioaccumulative potential:	Toltrazuril Log POW 4.18 @ 23°C

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.
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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 of this substance allowed for carriage on public service vehicles.

Section 15: Regulatory Information

Regulatory Status: Registered pursuant to the ACVM Act 1997, No A11401
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 **1L** of Toltrox is sold or supplied.

An emergency response plan, secondary containment and signage are required when stored in quantities of 1000L or greater.

Section 16: Other Information

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

Date of preparation: 31 October 2017

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.