



# SAFETY DATA SHEET

Title: TREMACIDE 120 FLUKICIDE FOR CATTLE FOR SHEEP		Document: SDS-AU104	
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Status: Current	Issue Date: 24-Feb-2023	Effective Date: 01-Mar-2023	Review Date: 11-Dec-2025

## Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

<b>Product Name:</b>	<b>Tremacide 120 Flukicide for Cattle and Sheep</b>
<b>Product Identifier:</b>	Aqueous suspension containing 120 g/L Triclabendazole
<b>Recommended Use:</b>	An oral drench for the treatment of susceptible early immature, immature and mature liver fluke ( <i>Fasciola hepatica</i> ) in cattle and sheep.
<b>Restrictions on Use:</b>	For animal treatment only.
<b>Company Identification:</b>	Jurox Pty Limited (part of Zoetis)
<b>Address:</b>	85 Gardiner Street, Rutherford, NSW 2320, Australia
<b>Email:</b>	customerservice@jurox.com.au
<b>Customer Service:</b>	1800 022 442 (Mon-Fri, 8:00am – 6:00pm AEST)
<b>National Poisons Information Centre:</b>	13 11 26 (24 hours)
<b>Emergency Telephone Number:</b>	1800 814 883 (all hours)

## Section 2: HAZARDS IDENTIFICATION

**Hazard Classifications:** This product has been assessed according to GHS and is classified as follows:

GHS Category	Hazard code	Hazard Statement
Acute Toxicity (Oral): Category 4	H302	Harmful if swallowed
Skin Sensitisation: Category 1	H317	May cause an allergic skin reaction
Specific target organ toxicity (repeat exposure): Category 2	H373	May cause damage to organs through prolonged or repeated exposure.

**Signal word: WARNING**

**GHS Pictograms:**



Health hazard      Exclamation mark



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## Precautionary statements:

### General

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

### Prevention

- P260 Do not breathe vapours/spray.  
P264 Wash all exposed external body areas thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.

### Response

- P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.  
P330 Rinse mouth.  
P302+P352 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 it before reuse.  
P314 Get medical advice/attention if you feel unwell.

### Storage

None

### Disposal

- P501 Triple rinse container and dispose of rinsate in compliance with relevant local, state or territory government regulations. Do not dispose of undiluted chemicals on-site. If the container has the **drumMUSTER** logo visible, and has been thoroughly cleaned and dried, and is free of any visible residues, it can be recycled at any **drumMUSTER** collection or similar container management program site. The cap should not be replaced, but may be recycled separately with the container. If an approved waste management facility is not available, bury the broken, crushed or punctured containers 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

N.B.: The above statements are determined by Work Health and Safety regulations and may not reflect Signal Headings and First Aid and Safety statements on product labelling, which are determined by a competent authority during assessment for registration.

**Other hazards:** None known.

## Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Triclabendazole	68786-66-3	12%
Ingredients not contributing to the hazards		88%



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## Section 4: FIRST AID MEASURES

**General Information:** Consult the National Poisons Centre on 13 11 26 or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have this SDS, product container or label at hand.

**Symptoms and Effects of Exposure:** None known.

**Inhalation:** If fumes, aerosols or combustion products are inhaled remove patient from contaminated area. Other measures are usually unnecessary. If respiratory symptoms occur, remove patient to fresh air. Lay patient down and keep warm and rested. If breathing is shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is difficult, give oxygen and seek medical assistance immediately.

**Ingestion:** If swallowed do NOT induce vomiting. Immediately give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. First aid is not generally required. If in doubt contact the National Poisons Centre in 13 11 26 or a doctor. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully.

**Skin:** If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

**Eye:** If eye contact occurs: Immediately flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing for at least 20 minutes. If eye irritation persists, get medical advice/attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Recommended First Aid Facilities:** Ready access to running water and soap is required. Accessible eyewash is required.

**Advice to Doctor:** No specific antidote. Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**Flash Point:** No data.

**Hazardous Combustion Products:** If involved in a fire, may emit noxious and irritant fumes.

**Extinguishing Media:** There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

**Protective Equipment:** Protective gloves and breathing apparatus.

**HAZCHEM Code:** None specified.



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## Section 6: ACCIDENTAL RELEASE MEASURES

**Spills and Disposal:** Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear gloves and appropriate protective clothing. For small spills, contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up and place in a suitable, labelled container for waste disposal. For large spills, exclude non-essential people from the area. Prevent spillage from entering drains or water courses and call emergency services.

**Protective Clothing:** For appropriate personal protective equipment see section 8.

**Environmental Precautions:** Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

## Section 7: HANDLING AND STORAGE

**Handling:** Handle this product to avoid exposure, taking all recommended precautions. Avoid contact with skin, eyes and inhalation of vapours. Use in a well-ventilated area. Do not allow clothing wet with material to stay in contact with skin. Use personal protective equipment as required. Do not eat, drink or smoke while handling product.

**Storage:** Keep out of reach of children. Store below 30°C (room temperature), in original container, tightly closed in a safe place, away from direct sunlight and foodstuffs.

**Other Information:** Avoid contact with incompatible substances as listed in Section 10. Always read the label before use.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.**

**Exposure Limits:** No exposure limits have been assigned for this product or its ingredients.

**Engineering Controls:** Handle in a well-ventilated area. Ensure that the work environment remains clean.

### Personal Protective Equipment (PPE):

Eye protection: Safety glasses with side shields or chemical goggles are recommended when handling bulk quantities of this product.

Skin protection: When handling bulk product, prevent skin contact by wearing chemical protective gloves e.g. PVC.

Respiratory protection: Not required for the normal use of this product.

Other: When handling bulk quantities of this product, overalls, PVC apron, barrier cream, skin cleansing cream and eye wash unit may be required.



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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	A uniform, white to off-white suspension	<b>Lower flammability limits:</b>	Not available
<b>Odour:</b>	Not available	<b>Vapour Pressure:</b>	Not available
<b>Odour threshold:</b>	Not available	<b>Vapour density:</b>	Not available
<b>pH:</b>	4.0 – 5.0	<b>Relative density:</b>	Not applicable
<b>Melting Point:</b>	Not applicable	<b>Specific Gravity:</b>	Not available
<b>Boiling Point:</b>	Not available	<b>Solubility in Water:</b>	Miscible
<b>Flash Point:</b>	Not available	<b>Partition coefficient:</b>	Not available
<b>Evaporation Rate:</b>	Not available	<b>Auto-ignition temperature:</b>	Not available
<b>Flammability:</b>	Not flammable	<b>Decomposition temperature:</b>	Not available
<b>Upper flammability limits:</b>	Not available	<b>Viscosity:</b>	Not applicable

## Section 10: STABILITY AND REACTIVITY

**Reactivity:** This product is unlikely to react or polymerise under normal storage conditions.

**Stability:** When stored appropriately this product should show no significant degradation within the expiry period shown on the label.

**Conditions to Avoid:** Extreme temperatures.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** Decomposes on heating and may produce toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride, phosgene, nitrogen oxides, sulphur oxides and other pyrolysis products typical of burning organic material.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity:

**Ingestion:** No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Acute Toxicity (Oral): Category 4**.

Triclabendazole: Oral LD<sub>50</sub>: 206 mg/kg (rabbit).

**Inhalation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the inhalation route.

Triclabendazole: Inhalation LC<sub>50</sub>: > 500mg/m<sup>3</sup>/4H (500mg/m<sup>3</sup>) (rat).

**Dermal:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the dermal route.

Triclabendazole: Dermal LD<sub>50</sub>: >4000 mg/kg (rat).



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**Skin Corrosion / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a skin irritant.

**Serious Eye Damage / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an eye irritant. Direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness.

**Respiratory or Skin Sensitisation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Skin sensitisation: Category 1**.

**Germ Cell Mutagenicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be mutagenic.

**Carcinogenicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic.

**Reproductive Toxicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a reproductive toxicant.

**STOT: Single exposure:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after single exposure.

**STOT: Repeat exposure:** No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as a **Specific Target Organ Toxicity (repeat exposure): Category 2**. Benzimidazole carbamate anthelmintics in large doses may produce intestinal cramps, loss of appetite, lethargy, lung bleeding, oedema, liver and epicardial bleeding, nausea, vomiting and diarrhoea.

**Aspiration hazard:** No data available.

**Narcotic Effects:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to have any narcotic effects.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be ecotoxic.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Triclabendazole	No data	No data	No data	No data

## Section 13: DISPOSAL INFORMATION

**Product Disposal:** Dispose of product only by using according to label or at an approved landfill.

**Container Disposal:** Crush or puncture and bury in an approved landfill if an approved recycling system is not available.

## Section 14: TRANSPORT INFORMATION

**Dangerous Goods Classification:** Not considered a Dangerous Good for land, sea and air transport.



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## Section 15: REGULATORY INFORMATION

**Poison Schedule (SUSMP):** None

**APVMA No.:** 52463

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

## Section 16: OTHER INFORMATION

This information is based on data believed by Jurox Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Jurox Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein does so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

### Legend:

<b>AICS</b>	Australian Inventory of Chemical Substances.
<b>APVMA</b>	Australian Pesticides and Veterinary Medicines Authority.
<b>CAS No.</b>	Chemical Abstracts Service Registry Number.
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals.
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
<b>LC<sub>50</sub></b>	The median lethal concentration, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>LD<sub>50</sub></b>	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>NICNAS</b>	National Industrial Chemicals Notification and Assessment Scheme.
<b>PPE</b>	Personal Protective Equipment.
<b>PVC</b>	Polyvinyl chloride.
<b>SDS</b>	Safety Data Sheet.
<b>STOT</b>	Specific Target Organ Toxicity.
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons.
<b>SWA</b>	Safe Work Australia.

### References:

ChemID Plus  
Chemwatch  
EPA New Zealand Chemical Classification and Information Database (CCID)  
HSDB (Hazardous Substances Data Bank)

### Revision History:

Date of Revision	Reason
22 February 2016	Classification of substance to GHS classification and update of SDS to comply with SWA Code of Practice.
11 December 2020	Update to GHS Rev. 7 and other minor updates throughout the document.
01 March 2023	Minor revision to update to Zoetis Customer Service and emergency phone numbers.

**END OF SDS**