



SAFETY DATA SHEET

Title: PENTAMOX MINERALISED ORAL DRENCH FOR SHEEP		Document: SDS-AU075	
		Rev: 1.2	PAGE 1 OF 12
Status: Current	Issue Date: 24-Feb-2023	Effective Date: 01-Mar-2023	Review Date: 12-Jan-2025

Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

Product Name:	Pentamox Mineralised Oral Drench for Sheep
Product Identifier:	Liquid drench containing: 1 g/L MOXIDECTIN 2.1 g/L COPPER (as disodium copper EDTA) 1.0 g/L IODINE (as ethylenediamine dihydroiodide) 0.6 g/L ZINC (as disodium zinc EDTA) 0.5 g/L SELENIUM (as sodium selenate) and 0.2 g/L COBALT (as disodium cobalt EDTA)
Recommended Use:	For the treatment and control of moxidectin sensitive gastrointestinal parasites, lungworms and itch mites of sheep. To supplement diets that may be deficient in selenium, cobalt, copper, zinc and iodine.
Restrictions on Use:	For animal treatment only.
Company Identification:	Jurox Pty Limited (part of Zoetis)
Address:	85 Gardiner Street, Rutherford, NSW 2320, Australia
Customer Service:	1800 022 442 (Mon-Fri, 8:00am – 6:00pm AEST)
Email:	customerservice@jurox.com.au
National Poisons Information Centre:	13 11 26 (24 hours)
Emergency Telephone Number:	1800 814 883 (all hours)

Section 2: HAZARDS IDENTIFICATION

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

GHS Category	Hazard code	Hazard Statement
Skin sensitization Category 1	H317	May cause an allergic skin reaction.
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic toxicity (acute) Category 1	H400	Very toxic to aquatic life.
Aquatic toxicity (chronic) Category 1	H410	Very toxic to aquatic life with long lasting effects.



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GHS Label Elements:

Signal Word:

WARNING

Pictograms:



Exclamation
Mark



Health
hazard



Aquatic
pollutant

Precautionary Statements:

Prevention

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe vapours/spray.
P272	Contaminated work clothing should not be allowed out of the work place.
P273	Avoid release to the environment.
P280	Wear protective gloves and protective clothing.

Response

P302+P352	IF ON SKIN: Wash with plenty of water.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Storage

P405	Store locked up.
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Disposal

P501	Preferably dispose of product by use. Otherwise treat the product so that it is no longer toxic and dispose of product and packaging at an approved landfill or other approved facility. Triple (or preferably pressure) rinse empty container, crush or puncture, and bury in a suitable landfill, or if appropriate, recycle.
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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.



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Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Benzyl alcohol	100-51-6	< 5%
Disodium copper EDTA	14025-15-1	1.47%
Butylated hydroxytoluene	128-37-0	< 1%
Disodium zinc EDTA	14025-21-9	0.40%
Disodium cobalt EDTA	15137-09-4	0.15%
Ethylenediamine dihydroiodide	5700-49-2	0.13%
Sodium selenate	13410-01-0	0.12%
Moxidectin	113507-06-5	0.1%
Ingredients not contributing to the hazards	-	> 90%

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: Most commonly reported adverse events in patients who took moxidectin were headache, pharyngitis, leukopaenia and dizziness. None known for the mixture.

Inhalation: 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. Rinse mouth. Keep subject warm and at rest. For advice, contact a doctor or the National Poisons Centre on 13 11 26.

Skin: If skin contact occurs, immediately remove all contaminated clothing, including footwear. Wash affected area thoroughly with plenty of soap and water for at least 20 minutes. If skin irritation or rash occurs, get medical advice/attention.

Eye: If eye contact occurs, rinse cautiously with water for at least 20 minutes. Continue rinsing. If eye irritation persists, get medical advice/attention.

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

Advice to Doctor: Treat symptomatically.



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Section 5: FIRE FIGHTING MEASURES

Flash Point: Not available.

Hazardous Combustion Products: If involved in a fire may emit toxic and corrosive 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 boots and breathing apparatus.

Hazchem Code: 3Z

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear appropriate protective clothing. Avoid breathing vapours and contact with skin and eyes. For small spills, wash area well with excess water. For large spills, exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Ventilate area and wash spill site after pick-up complete. Dispose of waste safely in an approved landfill.

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

Environmental Precautions: Prevent from entering drains, waterways or sewers. If contamination of drains and waterways occurs, advise local authority.

Section 7: HANDLING AND STORAGE

Handling: The product should be handled with care to avoid exposure. Avoid contact with skin, eyes and inhalation of vapours. Use personal protective equipment as required. Do not eat, drink or smoke while handling product. Wash hands after use.

Storage: Store below 30°C (room temperature), locked up, in original container, tightly closed.

Other Information: Always read the label before use. See label for further information on handling and storage.



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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. Known exposure limits for ingredients are as follows:

Occupational Exposure Limits (OEL)

SOURCE	INGREDIENT	TWA	STEL
Australian Exposure Standards	Butylated hydroxy toluene	10 mg/m ³	Not available
Australia Exposure Standards	Sodium selenate, anhydrous	0.1 mg/m ³	Not Available

Emergency Limits

INGREDIENT	TEEL-1	TEEL-2	TEEL-3
Benzyl alcohol	30 ppm	52 ppm	740 ppm
Butylated hydroxytoluene	6 mg/m ³	29 mg/m ³	180 mg/m ³
Sodium selenate, anhydrous	1.4 mg/m ³	1.6 mg/m ³	2 mg/m ³

Ingredient	Original IDLH	Revised IDLH
Sodium selenate, anhydrous	1 mg/m ³	Not Available

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

Personal Protective Equipment (PPE):

Eye Protection: Protective glasses or goggles are recommended when handling bulk quantities of this product.

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

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



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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear dark blue liquid.	Upper / Lower Flammability Limits:	Not available.
Odour:	Not available.	Vapour Pressure:	Not available.
Odour Threshold:	Not available.	Vapour Density:	Not available.
pH:	5.5 – 6.5	Relative Density / Specific Gravity:	1.05
Melting Point / Freezing Point:	Not available.	Solubility:	Miscible with water.
Boiling Point and Boiling Range:	Not available.	Partition Coefficient (n-octanol/water):	Not available.
Flash Point:	Not available.	Auto-Ignition Temperature:	Not available.
Evaporation Rate:	Not available.	Decomposition Temperature:	Not available.
Flammability:	Not available.	Viscosity:	Not available.

Section 10: STABILITY AND REACTIVITY

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

Chemical 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 produces toxic fumes of carbon monoxide, carbon dioxide, 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 not considered to be acutely toxic by the oral route.

Benzyl alcohol: Oral LD₅₀: 1230 mg/kg (rat), 1040 mg/kg (rabbit).

Disodium copper EDTA: Oral LD₅₀: >1000 mg/L (rat).

Butylated hydroxytoluene: Oral LD₅₀: 890 mg/kg (rat).

Disodium zinc EDTA: Oral LD₅₀: 1750 mg/kg (rat).

Disodium cobalt EDTA: Oral LD₅₀: > 6671 mg/kg (rat).

Ethylenediamine dihydroiodide: Oral LD₅₀: 1620 mg/kg (mouse).

Sodium selenate: Oral LD₅₀: 1.6 mg/kg (rat), Oral TDLo: 53 mg/kg (woman).

Moxidectin: Oral LD₅₀: 42 mg/kg (mouse), 106 mg/kg (rat).



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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.

Benzyl alcohol: Inhalation (rat) LC₅₀: > 4.178 mg/l/4h.

Disodium copper EDTA: No data.

Butylated hydroxytoluene: No data.

Disodium zinc EDTA: No data.

Disodium cobalt EDTA: No data.

Ethylenediamine dihydroiodide: No data.

Sodium selenate: No data.

Moxidectin: Inhalation (rat) LC₅₀: 3.28 mg/l/4h.

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.

Benzyl alcohol: Dermal LD₅₀: 2000 mg/kg (rabbit).

Disodium copper EDTA: No data.

Butylated hydroxytoluene: Dermal LD₅₀: > 2000 mg/kg (rat).

Disodium zinc EDTA: Dermal LD₅₀: > 2000 mg/kg (rat).

Disodium cobalt EDTA: No data.

Ethylenediamine dihydroiodide: No data.

Sodium selenate: No data.

Moxidectin: Dermal LD₅₀: > 2000 mg/kg (rabbit).

Aspiration Hazard: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an aspiration hazard.

Respiratory Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a respiratory irritant.

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.

Respiratory or Skin Sensitisation: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as a **Skin sensitizer (category 1)** – may cause an allergic skin reaction. Skin contact with the mixture (ingredients: benzyl alcohol, copper chelate, cobalt chelate, iodine EDDI and butylated hydroxytoluene) is more likely to cause a sensitisation reaction in some persons compared to the general population.

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. However, human exposure to selenium compounds may be associated with a mutagenic risk.

Carcinogenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic. However, there is some evidence that cobalt and cobalt compounds are possibly carcinogenic to humans.



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Reproductive Toxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as a **Reproductive toxicant (Category 2)** - *suspected of damaging fertility or the unborn child*. Animal studies showed that cobalt was embryotoxic to rat foetuses when pregnant rats were dosed with 0.05 mg/kg of the substance during the entire gestation.

Administration of 10 and 12 mg moxidectin per kg bw per day to pregnant rats resulted in significant increases in the total number of foetuses with abnormalities, typified by increased incidences of cleft palate and wavy or incompletely ossified ribs.

Specific Target Organ Toxicity (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.

Specific Target Organ Toxicity (STOT): Repeated exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as a **Specific target organ toxicant - repeat exposure (Category 2)** - *May cause damage to organs through prolonged or repeated exposure*. Animal studies show that long term oral exposure to sodium selenate can lead to liver damage. Human studies showed that consumption of cobaltous salts has been implicated as a causative agent in certain forms of cardiac disease. Signs and symptoms included gastrointestinal problems labored breathing, abdominal pain, cyanosis, lowered blood pressure, heart enlargement, pericardial effusion, rapid heart rate, and electrocardiographic (ECG) abnormalities.

Cobalt: Oral LOAEL: > 1.6 ppm/L (humans).
Cobalt: Inhalation LOAEL: 20 mg/m³ (guinea pigs).
Sodium selenate: Oral NOAEL: 0.37 mg/kg/day (rats).

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: Based on available data for the ingredients, the mixture is classified as **Acute Aquatic Hazard Category 1** and **Chronic Aquatic Hazard Category 1**. Sodium selenate is bioaccumulative - water flea BCF = 3650.

Fish

Benzyl alcohol: LC₅₀ (96h): 10 mg/L.
Disodium copper EDTA: LC₅₀ (96h) 838 mg/L, NOEC (840h): ≥ 25.7 mg/L
Butylated hydroxytoluene: LC₅₀ (96h) ≥ 0.57 mg/L.
Disodium zinc EDTA: LC₅₀ (96h) 1.59 mg/L; NOEC (96h) 1 mg/L.
Disodium cobalt EDTA: No data.
Ethylenediamine dihydroiodide: No data.
Sodium selenate: LC₅₀ (96h): 0.002 – 0.06 mg/L.
Moxidectin: LC₅₀ (96h): 0.00016 mg/L.

Crustacea

Benzyl alcohol: EC₅₀ (24h): 55 mg/L.
Disodium copper EDTA: EC₅₀ (48h): 100.9 mg/L.
Butylated hydroxytoluene: EC₅₀ (48h): 0.48 mg/L, NOEC (48h): 0.15mg/L.
Disodium zinc EDTA: EC₅₀ (48h) 100.9 mg/L.
Disodium cobalt EDTA: No data.
Ethylenediamine dihydroiodide: EC₅₀ (48h) 0.17 mg/L.
Sodium selenate: EC₅₀ (48h): 0.001 – 0.03 mg/L.
Moxidectin: EC₅₀ (48h): 0.00003 mg/L.



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Algae and other aquatic plants

Benzyl alcohol: EC₅₀ (96h): 76.83 mg/L.
Disodium copper EDTA: EC₅₀ (72h): > 60 mg/L.
Butylated hydroxytoluene: EC₅₀ (72h): > 0.4 mg/L.
Disodium zinc EDTA: No data.
Disodium cobalt EDTA: EC₅₀ (96h): 23.8 mg/L.
Ethylenediamine dihydroiodide: No data.
Sodium selenate: EC₅₀ (96h): 0.006 – 0.32 mg/L.
Moxidectin: No data.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Benzyl alcohol	LOW	LOW	LOW (LogKOW = 1.1)	LOW (KOC = 15.66)
Disodium copper EDTA	HIGH	HIGH	LOW (LogKOW = -10.24)	LOW (KOC = 465.2)
Butylated hydroxytoluene	HIGH	HIGH	HIGH (BCF = 2500)	LOW (KOC = 23030)
Disodium zinc EDTA	No data	No data	No data	No data
Disodium cobalt EDTA	No data	No data	No data	No data
Ethylenediamine dihydroiodide	No data	No data	No data	No data
Sodium selenate	HIGH	HIGH	LOW (LogKOW = -3.1818)	LOW (KOC = 48.64)
Moxidectin	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: [Pack sizes 1 L or less] Dispose of container by wrapping in paper and putting in garbage. [Pack sizes greater than 1 L] 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 not recycling, break, crush or puncture container and deliver to an approved waste management facility. 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.



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Section 14: TRANSPORT INFORMATION

Dangerous Goods Classification:

Not regulated as a dangerous good for road or rail transport within Australia as per Section 3.3.3 of the Australian Dangerous Goods Code. Regulated as follows when transported by sea or air freight and if transported internationally.

RID / ADR

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains MOXIDECTIN)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains MOXIDECTIN)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains MOXIDECTIN)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Marine pollutant Yes
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

General Information: IMDG Regulated Marine Pollutant. As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.



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Section 15: REGULATORY INFORMATION

Poison Schedule (SUSMP): S6

APVMA No.: 86433

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

Section 16: OTHER INFORMATION

Legend:

AICS	Australian Inventory of Chemical Substances.
BCF	Bioconcentration factor. The ratio of the concentration of a substance in an aquatic organism to the concentration of the substance in the surrounding water.
BW	Bodyweight.
CAS No.	Chemical Abstracts Service Registry Number.
EC₅₀	The median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction in 50% of organisms or a 50% reduction in growth or in the growth rate of organisms.
EDDI	Ethylenediamine Dihydroiodide.
EPA	Environmental Protection Authority.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
HSNO	Hazardous Substances and New Organisms Act.
IDLH	Immediately dangerous to life or health.
KOC	Soil-Water Partition Coefficient. The ratio of a chemical's concentration that is adsorbed in the soil to the concentration of chemical in solution.
KOW	Octanol Water Partition Coefficient. The ratio of a compound's concentration in a known volume of n-octanol to its concentration in a known volume of water after the octanol and water have reached equilibrium.
LC₅₀	The median lethal concentration, being a statistically derived concentration of a substance that can be expected to cause death in 50% of animals.
LD₅₀	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
LDLo	Lethal Dose Low. The lowest published lethal dose.
LOAEL	Lowest observed adverse effect level.
NICNAS	National Industrial Chemicals Notification and Assessment Scheme.
NOAEL	No observed adverse effect level.
NOEC	No-observable-effect-concentration.
OEL	Occupational exposure limits.
PPE	Personal Protective Equipment.
PVC	Polyvinyl chloride.
SDS	Safety data sheet.
STEL	Short term exposure limit.
STOT	Specific Target Organ Toxicity.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.
TDLo	Lowest published toxic dose.



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TEELs	Temporary Emergency Exposure Limits. Guidelines designed to predict the response of members of the general public to different concentrations of a chemical during an emergency response incident.
TEEL-1	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic, nonsensory effects. However, these effects are not disabling and are transient and reversible upon cessation of exposure.
TEEL-2	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting, adverse health effects or an impaired ability to escape.
TEEL-3	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening adverse health effects or death.
TWA	Time-Weighted Average. The average exposure over a specified period, usually a nominal eight hours.

References:

ChemID Plus

EPA New Zealand Chemical Classification and Information Database (CCID)

<https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid>

HSDB (Hazardous Substances Data Bank)

Revision History:

Date of Revision	Reason
06 January 2020	Update to GHS Revision 7 precautionary statements. Update to DG information
01 March 2023	Minor revision to update to Zoetis Customer Service and emergency phone numbers.

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 do 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.

END OF SDS