

ISSUED: 09 February 2011

MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

Product Name:	Q-Drench Multi-Combination Drench for Sheep
Product Code:	503160 (1 L); 502870 (5 L); 502875 (10 L)
Recommended Use:	Oral antiparasiticide for sheep
Company Identification:	Jurox Pty Limited
Address:	85 Gardiner Road Rutherford NSW 2320 Australia
Customer Centre:	1800 023 312
National Poisons Information Centre:	131 126 (Australia-wide)
Emergency Telephone Number:	1800 023 312

Section 2: HAZARDS IDENTIFICATION

Hazard Classifications:	Considered a Hazardous Substance according to the criteria of NOHSC Australia. Not considered a Dangerous Good according to the criteria of the Australian Dangerous Goods (ADG) Code.
Poisons Schedule:	S6
Risk phrases:	Harmful in contact with skin and if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Inhalation may produce health damage (limited evidence). May cause harm to the unborn child. Possible skin sensitiser (limited evidence). Limited evidence of a carcinogenic effect. Cumulative effects may result following exposure (limited evidence).
Safety phrases:	Keep out of reach of children. Read label before use. Do not handle until all safety precautions have been read and understood. Keep locked up. Do not breathe vapours. In case of insufficient ventilation, wear suitable respiratory equipment. Use only in a well ventilated place. Avoid exposure – obtain special instructions before use. Use water and detergent to clean the floor and all objects contaminated by this material. Keep container tightly closed. This material and its container must be disposed of in a safe way. Keep away from food, drink and animal feeding stuffs. Use appropriate container to avoid environmental contamination. Avoid release to the environment. Refer to special instructions.

Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Abamectin	71751-41-2	0.1%
Albendazole	54965-21-1	2.5%
Closantel	57808-65-8	3.75%
Levamisole Hydrochloride	16595-80-5	4.0%
Other non-hazardous ingredients		30 - 60%
Water		to 100%

Section 4: FIRST AID MEASURES

- First Aid Measures:** Consult the National Poisons Centre on 131126 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 product container or label at hand.
- Inhalation:** 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. Seek medical assistance immediately.
- Ingestion:** If swallowed, DO NOT induce vomiting. Rinse mouth. Keep subject warm and at rest. For advice, contact the National Poisons Centre on 131126.
- Skin:** If on skin, remove contaminated clothing and wash affected area thoroughly with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before re-use.
- Eye:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- Chronic:** May cause harm to the unborn child. Avoid contact during pregnancy/while nursing.
- Advice to Doctor:** No specific antidote. Poisoning by abamectin may cause neurological symptoms. Treat symptomatically. If vomiting is induced, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Only induce vomiting if conscious. NOTE: wear a protective glove when inducing vomiting by mechanical means.

Section 5: FIRE FIGHTING MEASURES

- Flash Point:** Not flammable. Not combustible.
- Hazardous Combustion Products:** If involved in a fire may evolve poisonous and/or corrosive fumes. Expansion on heating may lead to violent rupture of containers. Non-combustible, not considered a significant fire risk.
- 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.

Section 6: ACCIDENTAL RELEASE MEASURES

- Spills and Disposal:** Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and sweep up / 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 spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling:	Keep out of reach of children. Avoid contact with skin, eyes and inhalation of vapours. Use personal protective equipment as required.
Storage:	Keep out of reach of children. Store below 30°C, in original container, tightly closed in a safe place, away from direct sunlight and away from foodstuffs.
Other Information:	Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	No exposure limits have been assigned for this product. Avoid breathing vapours. Do not handle until all safety precautions have been read and understood. Avoid contact during pregnancy/while nursing.
Protective Equipment:	When using the product, wear protective gloves, clothing and eyewear.
Engineering Controls:	Handle in a well ventilated area.
Hygiene Precautions:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face thoroughly before meals and after handling. Wash protective clothing daily after work. Contaminated clothing should not be allowed out of the workplace.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white suspension
Specific Gravity:	Approx 1.01 – 1.03
Solubility in Water:	Aqueous suspension
Flash Point:	Not applicable
pH:	5.0 – 5.5

Section 10: STABILITY AND REACTIVITY

Stability:	When stored appropriately this product should show no significant degradation for at least 18 months from the date of manufacture.
Hazardous Polymerisation:	Not known to occur.
Materials to Avoid:	Not applicable.

Section 11: TOXICOLOGICAL INFORMATION

Inhalation:	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.
Ingestion:	Harmful if swallowed Levamisole Hydrochloride: Oral LD50 ; 480 mg/kg (rat), 210 mg/kg (mouse) Albendazole: Oral LD50 2400 mg/kg (rat) Abamectin: Oral LD50 11 mg/kg (rat), 14 mg/kg (mouse) Closantel: Oral LD50 262 mg/kg (rat), 40 mg/kg (sheep)
Skin:	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. May cause skin irritation on prolonged contact. Is a contact sensitiser.
Eye:	Causes eye irritation.
Chronic Effects:	There is limited evidence that skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Sensitisation may result in allergic dermatitis responses including rash, itching, hives or swelling of extremities.

- Reproductive Toxicity:** There is some evidence from animal testing that exposure to one component of this product may result in toxic effects to the foetus, and may be harmful to development of breast-fed children.
- Mutagenicity:** There is some evidence from animal testing that exposure to one component of this product for prolonged periods may cause physical defects in the developing embryo (teratogenesis).
- Carcinogenicity:** There is limited evidence of a carcinogenic effect.

Section 12: ECOLOGICAL INFORMATION

- Ecotoxicity:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Abamectin:**
Acute oral LD50: 84.6 mg/kg (mallard ducks), >2000 mg/kg (bobwhite quail)
Fish LC50 (96 h): 3.2 ug/L (rainbow trout), 9.6 ug/L (bluegill sunfish), 24 ug/L (channel catfish), 42 ug/L (carp)
Daphnia EC50 (48 h) 0.34 ppb
Other LC50 (96 h) 1.6 ppb (pink shrimp), 0.022 ppb (mysid shrimp), 153 ppb (blue crab)
- Albendazole:**
Daphnia EC50 (48 hrs): 67.9 µg/L
- Bioaccumulation:** No bio-accumulation.

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 classed as a Dangerous Good for transport purposes by road, sea or air.

Section 15: REGULATORY INFORMATION

APVMA Registration No: 56573.

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.