



# **D-max**

## **POUR-ON FOR CATTLE**

### **Abbey Animal Health Pty Ltd**

#### **SAFETY DATA SHEET**

### **Section 1- Identification of Product and Supplier**

**Supplier Company Details:** Abbey Animal Health Pty Ltd

**Address:** 39 Buckenderra Road, Middlingbank NSW 2630

**Telephone Number:** 02 8088 0720

**Facsimile Number:** 02 8088 0721

**Emergency Number:** Australian Poisons Information Centre: 13 11 26 (24 Hour Service).

#### **PRODUCT NAME**

*D-max POUR-ON FOR CATTLE*

#### **PRODUCT USE**

For the treatment and control of Doramectin sensitive internal and external parasites of cattle.

### **Section 2- Hazards Identification**

#### **Statement of Hazardous Nature**

**This product is classified as:** Hazardous according to the criteria of SWA.

**SUSMP Classification:** S6

**ADG Classification:** Dangerous Goods according to Australian Dangerous Goods (ADG) Code.

#### **GHS Signal word: DANGER**

Flammable liquids- Category 2

Serious eye damage/eye irritation- Category 2A

Toxic to reproduction- Effect on or via lactation

Specific target organ toxicity following single exposure- Category 3

Hazardous to aquatic environment Acute toxicity- Category 1

Hazardous to aquatic environment long-term hazard- Category 1

#### **Pictograms**



#### **HAZARD STATEMENT:**

*First Effective Date: 12<sup>th</sup> September 2018*

H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H362: May cause harm to breast-fed children.  
H400: Very toxic to aquatic life.  
H410: Vary toxic to aquatic life with long lasting effects.

## **PREVENTION**

P201: Obtain special instructions before use.  
P210: Keep away from heat/sparks/ open flames/hot surfaces. No smoking.  
P233: Keep container tightly closed.  
P240: Ground/Bond container and receiving equipment.  
P241: Use explosion-proof electrical/ ventilating/lighting equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P260: Do not breathe dusts or mists.  
P261: Avoid breathing dust/fume/ gas/mist/vapours/spray.  
P263: Avoid contact during pregnancy/ while nursing.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release in the environment.  
P280: Wear protective gloves/eye protection/face protection

## **RESPONSE**

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313: IF exposed or concerned: Get medical advice/ attention.  
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P337 + P313: If eye irritation persists: Get medical advice/attention.  
P370 + P378: In case of fire: Use appropriate media for extinction.  
P391: Collect spillage.

## **STORAGE**

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.

## **DISPOSAL**

P501: Dispose of contents and containers as specified on the registered label.

*First Effective Date: 12<sup>th</sup> September 2018*

## Section 3- Composition / Information on Ingredients

### INGREDIENTS:

Chemical name	CAS No.	Conc., %	TWA (mg/m3)	STEL (mg/m3)
Doramectin	117704-25-3	0.5	not set	not set
Triethanolamine	872-50-4	<0.1	5	not set
Isopropyl alcohol	67-63-0	>60	983	1230

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

## Section 4- First Aid Measures

**Call Poisons Information Centre Phone Australia 131 126, if you feel that you may have been poisoned or irritated by this product.**

### SAFETY DIRECTIONS

Poisonous if swallowed. Will irritate the eyes and skin. Avoid contact with skin and eyes. When using the product wear face shields or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash face shields or goggles.

**Swallowed:** Rinse mouth. Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

**Skin:** Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Eye:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Inhaled:** Move to fresh air. Call a POISON CENTRE or doctor/physician if you feel unwell. For breathing difficulties, oxygen may be necessary.

## Section 5- Fire Fighting Measures

### Extinguishing Media:

**Suitable extinguishing media:** Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Specific hazards arising from the chemical:** Highly flammable. Vapours may ignite. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

## Section 6 - Accidental Release Measures

**Emergency Procedures:** None applicable.

**Method of Containment and Clean up Procedures:** Absorb small spills using suitable absorbing material and place in a sealed container for disposal. Contain large spills and transfer to an appropriate container for disposal. Residual surface material should be removed with towels moistened with methanol. Incinerate all spill material and residues at temperatures greater than 500°C. Doramectin is very toxic to certain aquatic species. Avoid contact of spilled materials and runoff with soil and surface waterways. Do not flush into drains or natural waterways or areas draining into potable water supplies. Use suitable protective equipment. Contact emergency response personnel for large spills. Keep unnecessary persons away.

## Section 7 - Handling and Storage

**Handling:** Highly flammable. May be ignited by open flame. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Wear personal protective equipment. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapour. Avoid prolonged exposure. Do not taste or swallow. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment.

**Storage:** Note that this product is GHS Flammable Class 3 and therefore, for Storage, meets the definition of Dangerous Goods. If you store large quantities (tons) of such products, we suggest that you consult your state's Dangerous Goods authority in order to clarify your obligations regarding their storage.

Store below 30°C (Room Temperature). Protect from direct sunlight. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

## Section 8 - Exposure Controls / Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501 set 2008**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

<b>SWA Exposure Limits</b>	<b>TWA (mg/m<sup>3</sup>)</b>	<b>STEL (mg/m<sup>3</sup>)</b>
Triethanolamine	5	not set
Isopropyl alcohol	983	1230

The ADI for Doramectin is set at 0.002 mg/kg/day. The corresponding NOEL is set at 0.1 mg/kg/day. ADI means Acceptable Daily Intake and NOEL means no-observable-effect-level (Values taken from Australian ADI List, JUNE 2018).

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL. Chemical respirator with organic vapour cartridge, full facepiece, dust and mist filter.

**Eye Protection:** Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

**Skin Protection:** Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

## Section 9 - Physical and Chemical Properties

**Physical Description & colour:** Light Blue clear solution.

**Odour:** No data.

**Boiling Point:** No data.

**Freezing/Melting Point:** No specific data. Liquid at normal temperatures.

**Vapour Pressure:** No data.

**Vapour Density:** No data.

**Specific Gravity:** No data.

**Water Solubility:** No data.

**pH:** No data.

**Volatility:** No data.

**Odour Threshold:** No data.

**Evaporation Rate:** No data.

**Coeff Oil/water Distribution:** No data

**Autoignition temp:** No data.

## Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Contact with incompatible materials. Sunlight. Exposure to light. High temperatures. Keep away from heat, spark, open flames and other sources of ignition.

**Incompatibilities:** Acids. Strong oxidising agents. Isocyanates. Chlorine.

**Fire Decomposition:** Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

## Section 11 - Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and product label.

### Doramectin

#### ACUTE TOXICITY

Rat (M)	Oral	LD50	1000-2000 mg/kg
Rat (F)	Oral	LD50	500-1000 mg/kg
Rat	Dermal	LD50	>2000 mg/kg
Rat	Inhalation (Dust)	LC50	0.54 mg/L, 4hrs

#### SUBCHRONIC TOXICITY

3 Month(s)	Rat	Oral	2 mg/kg/day	NOEL	Liver
3 Month(s)	Dog	Oral	0.1 mg/kg/day	NOEL	Central Nervous System

#### REPRODUCTION & DEVELOPMENTAL TOXICITY

Embryo / Fetal Development Rat Oral >6 mg/kg/day NOEL Not teratogenic

Embryo / Fetal Development Mouse Oral 3 mg/kg/day NOEL Fetotoxicity, Not Teratogenic

Embryo / Fetal Development Rabbit Oral 0.75 mg/kg/day NOEL Maternal Toxicity, Teratogenic

### Isopropyl Alcohol

#### ACUTE TOXICITY

Rat	Dermal	LD50	12800 mg/kg
Rat	Inhalation	LC50	16000 ppm, 8 hours
Rat	Oral	LD50	>2000 mg/kg
Mouse	Oral	LD50	3600 mg/kg

#### CHRONIC TOXICITY

20 weeks	Rat	Inhalation	400 ppm	NOEL	Liver, Central nervous system
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#### REPRODUCTION & DEVELOPMENTAL TOXICITY

Prenatal/Postnatal Development Rat Oral 1200 mg/kg/day NOEL No effects at maximum dose

Prenatal/Postnatal Development Rat Inhalation 7000 ppm LOAEL Maternal toxicity, Fetotoxicity, Embryotoxicity

Rat Oral 1000 mg/kg/day LOAEL Generation reproductive toxicity, Maternal toxicity, Fetal mortality

## Triethanolamine

### ACUTE TOXICITY

Rabbit	Dermal	LD50	20 g/kg
Rat	Oral	LD50	8 g/kg

**Carcinogen Status:** None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

## Section 12 - Ecological Information

**Potential Environmental Considerations:** Doramectin is extremely toxic to aquatic species. Do not contaminate dams, rivers, streams or other waterways with the chemical or used container.

When used according to label instructions, D-max Doramectin Injection is not likely to have an unintended effect that is harmful to the environment or have an overall adverse impact on the dung beetle populations. Increased mortality and impaired development of larvae may be expected, but for a limited period after treatment.

### AQUATIC TOXICITY

#### Doramectin

<i>Daphnia magna</i> (Water Flea)	EC50	48 Hours	0.00010 mg/L
<i>Lepomis macrochirus</i> (Bluegill Sunfish)	LC50	96 Hours	0.011 mg/L
<i>Oncorhynchus mykiss</i> (Rainbow Trout)	LC50	96 Hours	0.0051 mg/L
<i>Eisenia foetida</i> (Earthworm)	LC50	7, 14, 28 days	>1000 mg/kg

#### Isopropyl alcohol

Fish Bluegill ( <i>Lepomis macrochirus</i> )	LC50	96 hours	> 1400 mg/L
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#### Triethanolamine

<i>Ceriodaphnia dubia</i> (Daphnids)	EC50	48 Hours	610 mg/L
<i>Daphnia Magna</i> (Water Flea)	EC50	Hours	1386 mg/L
<i>Brachydanio rerio</i> (Zebra fish)	LC50	96 Hours	11800 mg/L
<i>Daphnia magna</i> (Water Flea)	NOEC	21 day(s)	16 mg/L
Crustacea Water flea ( <i>Ceriodaphnia dubia</i> )	EC50	48 hours	565.2 - 658.3 mg/L
Fish Fathead minnow ( <i>Pimephales promelas</i> )	LC50	96 hours	10610 - 13010 mg/L

## Section 13 - Disposal Considerations

### Disposal

**For containers 1L or less:** Dispose of container by wrapping with paper and putting in garbage.

**For containers greater than 1L:** Triple or (preferably) pressure rinse the container and dispose of rinsate in compliance with relevant local, state or territory government. If recycling, replace cap and return clean container to recycler or designated collection point. 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 500mm

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.

## Section 14 - Transport Information

**ADG**

**UN number:** UN1219

**UN proper shipping name:** ISOPROPANOL SOLUTION

**Transport hazard class(es)**

**Class 3**

**Subsidiary risk -**

**Packing group II**

**Environmental hazards:** No

**Hazchem Code:** •2YE

## Section 15 - Regulatory Information

**Poisons Schedule:** 6

**APVMA Approval Number:** 86196

**Approved pack size:** 1L, 2.5L, 5L, 10L, 15L, 20L, 22L

*For more information please refer to the APVMA approved product label*

## Section 16 – Other Information

*Abbey Animal Health Pty Ltd*

*Telephone Number: 02 8088 0720*

*Facsimile Number: 02 8088 0721*

**Emergency Number: Australian Poisons Information Centre: 13 11 26 (24 Hour service).**

*This Safety Data Sheet (SDS) summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace.*

*Each user must review this SDS in the context of how the product will be handled and used in the workplace.*

*If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.*