

# SAFETY DATA SHEET



## 1. Identification

<b>Product identifier</b>	<b>DECTOMAX (Doramectin) Pour-On Solution</b>
<b>Other means of identification</b>	
<b>Synonyms</b>	DECTOMAX® * Dectomax Pour On Endectocide * DECTOMAX Pour-on
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Recommended use</b>	Veterinary antiparasitic
<b>Restrictions on use</b>	Not for human use
<b>Details of manufacturer or importer</b>	
<b>Company Name (AU)</b>	Zoetis Australia Pty Ltd ABN 94 156 476 425 Level 6, 5 Rider Boulevard Rhodes NSW 2138 AUSTRALIA
<b>Tel</b>	1800 814 883
<b>Fax</b>	(02) 8876 0444
<b>Email</b>	australia.animalhealth@zoetis.com
<b>Emergency Phone</b>	1800 814 883 (all hours)
<b>Police and Fire Brigade</b>	Dial 000
<b>If ineffective</b>	Dial Poisons Information Centre (13 1126 from anywhere in Australia)

## 2. Hazard(s) identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Effects on or via lactation
	Specific target organ toxicity following single exposure	Category 3 narcotic effects
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1

### Label elements, including precautionary statements

#### Hazard symbol(s)



Flame      Exclamation mark      Environment

#### Signal word

Danger

#### Hazard statement(s)

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. May cause harm to breast-fed children. Very toxic to aquatic life with long lasting effects.

#### Precautionary statement(s)

##### Prevention

Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Do not breathe mist or vapour. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

<b>Response</b>	IF exposed or concerned: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell. 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. In case of fire: Use appropriate media for extinction. Collect spillage.
<b>Storage</b>	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Other hazards which do not result in classification</b>	None known.
<b>Supplemental information</b>	None.

### 3. Composition/information on ingredients

#### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients (%)
Isopropyl alcohol	67-63-0	60-85
Doramectin	117704-25-3	0.5
Triethanolamine	102-71-6	<0.1

### 4. First-aid measures

#### Description of necessary first aid measures

<b>Inhalation</b>	Move to fresh air. Call a POISON CENTRE or doctor/physician if you feel unwell. For breathing difficulties, oxygen may be necessary.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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.
<b>Personal protection for first-aid responders</b>	IF exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of the SDS. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. In case of shortness of breath, give oxygen. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
<b>Symptoms caused by exposure</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. Prolonged exposure may cause chronic effects.
<b>Medical attention and special treatment</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed. In case of shortness of breath, give oxygen. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

### 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.

**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.

**Special protective equipment and precautions for fire fighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Hazchem Code** 2Y E

**General fire hazards** Highly flammable liquid and vapour.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained.

**For emergency responders** Keep unnecessary personnel away. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Methods and materials for containment and cleaning up** Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Ventilate the contaminated area. Ground container and transfer equipment to eliminate static electric sparks. Use only non-sparking tools. Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination.

Small Spills: Absorb spillage with non-combustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

**Precautions for safe 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.

Also, Industrial use: Static electricity and formation of sparks must be prevented. Take measures to prevent the build up of electrostatic charge. Use only non-sparking tools. Ground container and transfer equipment to eliminate static electric sparks. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations.

**Conditions for safe storage, including any incompatibilities** Store locked up. Keep containers tightly closed in a cool, well-ventilated place. < 30C/86F. Protect from light. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. This material can accumulate static charge which may cause spark and become an ignition source. Take measures to prevent the build up of electrostatic charge. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

Also, Industrial use: Keep in an area equipped with sprinklers. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Use only non-sparking tools.

## 8. Exposure controls and personal protection

**Control parameters** Follow standard monitoring procedures.

### Occupational exposure limits

Zoetis Components	Type	Value
Doramectin (CAS 117704-25-3)	TWA	200 µg/m <sup>3</sup>

**Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)**

Components	Type	Value
Isopropyl alcohol (CAS 67-63-0)	STEL	1230 mg/m <sup>3</sup>
	TWA	500 ppm
		983 mg/m <sup>3</sup>
Triethanolamine (CAS 102-71-6)	TWA	400 ppm
		5 mg/m <sup>3</sup>

**Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)**

Components	Type	Value
Isopropyl alcohol (CAS 67-63-0)	STEL	1230 mg/m <sup>3</sup>
	TWA	500 ppm
		983 mg/m <sup>3</sup>
Triethanolamine (CAS 102-71-6)	TWA	400 ppm
		5 mg/m <sup>3</sup>

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m <sup>3</sup>

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Isopropyl alcohol (CAS 67-63-0)	STEL	1250 mg/m <sup>3</sup>
	TWA	500 ppm
Triethanolamine (CAS 102-71-6)	TWA	999 mg/m <sup>3</sup>
		400 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	TWA	500 mg/m <sup>3</sup>	
		200 ppm	
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

**Biological limit values**

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling time
Isopropyl alcohol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*

\* - For sampling details, please see the source document.

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling time
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

\* - For sampling details, please see the source document.

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, for example personal protective equipment (PPE)**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	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.
<b>Thermal hazards</b>	Not applicable.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>Appearance</b>	Clear. solution.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Light blue.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	84 °C (183.2 °F)
<b>Flash point</b>	14.4 °C (57.9 °F)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other physical and chemical parameters</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>Specific gravity</b>	0.8 @ 25C/77F

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
-------------------	---

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials. Sunlight. Exposure to light. High temperatures. Keep away from heat, spark, open flames and other sources of ignition.
<b>Incompatible materials</b>	Acids. Strong oxidising agents. Isocyanates. Chlorine.
<b>Hazardous decomposition products</b>	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

## 11. Toxicological information

### Information on possible routes of exposure

<b>Inhalation</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Isopropyl alcohol	Result: Irritation Species: Rabbit Severity: Mild
Doramectin	Species: Rabbit Severity: Non-irritating
<b>Eye contact</b>	Causes serious eye irritation.
Isopropyl alcohol	Result: Irritation Species: Rabbit Severity: Severe
Doramectin	Species: Rabbit Severity: Non-irritating

**Ingestion** Health injuries are not known or expected under normal use. May be harmful if swallowed.

**Symptoms related to exposure** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. Prolonged exposure may cause chronic effects.

**Acute toxicity** May be harmful if swallowed.

Components	Species	Test results
Doramectin (CAS 117704-25-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
<b>Inhalation</b>		
<i>Dust</i>		
LC50	Rat	0.54 mg/l, 4 hours
<b>Oral</b>		
LD50	Rat (F)	500 - 1000 mg/kg
	Rat (M)	1000 - 2000 mg/kg
<b>Subchronic</b>		
<b>Oral</b>		
NOEL	Dog	0.1 mg/kg/day, 3 months (Central Nervous System)
	Rat	2 mg/kg/day, 3 months (Liver)
Isopropyl alcohol (CAS 67-63-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12800 mg/kg
<b>Inhalation</b>		
LC50	Rat	16000 ppm, 8 hours

Components	Species	Test results
		30 mg/l
<b>Oral</b>		
LD50	Mouse	3600 mg/kg
	Rat	> 2000 mg/kg
<b>Chronic</b>		
<b>Inhalation</b>		
NOAEL	Rat	4000 ppm, 20 weeks (Liver, Central nervous system)
Triethanolamine (CAS 102-71-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	20 g/kg
<b>Oral</b>		
LD50	Rat	8 g/kg
<b>Skin corrosion/irritation</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	
<b>Corrosivity</b>		
Isopropyl alcohol		Result: Irritation Species: Rabbit Severity: Mild
Doramectin		Species: Rabbit Severity: Non-irritating
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.	
<b>Eye contact</b>		
Isopropyl alcohol		Result: Irritation Species: Rabbit Severity: Severe
Doramectin		Species: Rabbit Severity: Non-irritating
<b>Respiratory or skin sensitisation</b>		
<b>Respiratory sensitisation</b>	Not a respiratory sensitizer.	
<b>Skin sensitisation</b>	This product is not expected to cause skin sensitisation.	
<b>Skin sensitisation</b>		
Doramectin		LLNA, concentrations up to 5% Result: negative Species: Mouse
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Mutagenicity</b>		
Doramectin		Bacterial Mutagenicity (Ames) Result: negative Species: Salmonella
Isopropyl alcohol		Bacterial Mutagenicity (Ames) Result: negative Species: Salmonella
		In Vitro Sister Chromatid Exchange Result: negative
Doramectin		In vivo Micronucleus Result: negative Species: Mouse

**Mutagenicity**

Isopropyl alcohol

Mammalian Cell Mutagenicity

Result: negative

Species: HGPRT Chinese Hamster Ovary (CHO) cells

Doramectin

Mammalian Cell Mutagenicity

Result: negative

Species: Mouse Lymphoma

Unscheduled DNA Synthesis

Result: negative

Species: Rat Hepatocyte

**Carcinogenicity**

Due to partial or complete lack of data the classification is not possible.

**ACGIH Carcinogens**

Isopropyl alcohol (CAS 67-63-0)

A4 Not classifiable as a human carcinogen.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Triethanolamine (CAS 102-71-6)

3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity**

May cause harm to breastfed babies. Repeat-dose studies in animals have shown a potential to cause adverse effects on developing fetus.

**Developmental effects**

Doramectin

&gt; 6 mg/kg/day Embryo / Fetal Development, Not teratogenic

Result: NOEL

Species: Rat

Organ: Oral

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

Result: NOEL

Species: Rabbit

Organ: Oral

Isopropyl alcohol

1200 mg/kg/day Prenatal &amp; Postnatal Development, No effects at maximum dose

Result: NOAEL

Species: Rat

Organ: Oral

Doramectin

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

Result: NOEL

Species: Mouse

Organ: Oral

Isopropyl alcohol

7000 ppm Prenatal &amp; Postnatal Development, Maternal toxicity, Fetotoxicity, Embryotoxicity

Result: LOAEL

Species: Rat

Organ: Inhalation

**Reproductivity**

Doramectin

0.3 mg/kg/day 2-generation, No effects except lower pup weight during lactation

Result: NOEL

Species: Rat

Organ: Oral

Isopropyl alcohol

1000 mg/kg/day 2 Generation Reproductive Toxicity, Maternal Toxicity, Fetal mortality

Result: LOAEL

Species: Rat

Organ: Oral

**Specific target organ toxicity - single exposure**

May cause drowsiness and dizziness.



<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible. This product may affect Nervous system. Liver. Kidneys. through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged exposure may cause chronic effects.
<b>Other information</b>	May be absorbed through the skin and cause systemic effects.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects. Avoid release to the environment.

Components	Species	Test results			
Doramectin (CAS 117704-25-3)	EC50	Activated sludge	> 1000 mg/l, 3 hours		
	MIC	Aspergillus niger (Fungus)	600 mg/l		
		Clostridium perfringens (Bacterium)	40 mg/l		
		Selenastrum capricornutum (Green Alga)	> 0.026 mg/l, 14 days		
	NOEC	Eisenia foetida (Earthworm)	0.89 mg/kg, 56 days (reproduction)		
	NOEL	Selenastrum capricornutum (Green Alga)	0.026 mg/l, 14 days		
	<i>Acute</i>	EC50	Daphnia magna (Water Flea)	0.0001 mg/l, 48 Hours	
		LC50	Eisenia foetida (Earthworm)	> 1000 mg/kg, 14 days	
					> 1000 mg/kg, 28 days
					> 1000 mg/kg, 7 days
		Lepomis macrochirus (Bluegill Sunfish)	0.011 mg/l, 96 Hours		
		Oncorhynchus mykiss (Rainbow Trout)	0.0051 mg/l, 96 Hours		
Isopropyl alcohol (CAS 67-63-0)					
<b>Aquatic</b>					
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours		
Triethanolamine (CAS 102-71-6)	EC50	Ceriodaphnia dubia (Daphnids)	610 mg/l, 48 Hours		
		Daphnia Magna (Water Flea)	1386 mg/l, Hours		
	LC50	Brachydanio rerio (Zebra fish)	11800 mg/l, 96 Hours		
	NOEC	Daphnia magna (Water Flea)	16 mg/l, 21 day(s)		
	<b>Aquatic</b>				
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours		
Fish	LC50	Fathead minnow (Pimephales promelas)	10610 - 13010 mg/l, 96 hours		
<b>Persistence and degradability</b>	No data is available on the degradability of this product. As with other members of the avermectin family, doramectin is highly toxic to fish and certain aquatic organisms. However, once in contact with soil, it is tightly bound and does not readily desorb. It is unlikely to reach groundwater and is also biodegradable by soil microflora.				
<b>Photolysis</b>					
<b>Half-life (Photolysis-aqueous)</b>					
Doramectin			4.45 hours, @ 25C		
<b>Biodegradability</b>					
<b>Percent degradation (Aerobic biodegradation)</b>					
Doramectin			25.5 % OECD 301D Test Duration: 28 days		
<b>Percent degradation (Aerobic biodegradation-soil)</b>					
Doramectin			50 % Loam DT50, 61-79 days		

**Bioaccumulative potential** No data available for this product.

**Partition coefficient  
n-octanol / water (log Kow)**

Doramectin 4.4

**Mobility in soil** No data available for this product. The active ingredient in this formulation is expected to bind to soil or sediment.

**Adsorption**

**Soil/sediment sorption - log Koc**

Doramectin 3.88 - 4.94

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal methods** Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not allow this material to drain into sewers/water supplies. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 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  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

Other information: Limited Quantity is <= 1.0 liters per inner packaging.

**RID**

**UN number** UN1219  
**UN proper shipping name** Isopropanol Solution  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Packing group** II  
**Environmental hazards** Yes  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**IATA**

**UN number** UN1219  
**UN proper shipping name** Isopropanol Solution  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Packing group** II  
**Environmental hazards** Marine Pollutant (Doramectin) >5L / Kg

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

Other information: Consumer Commodity, 9, ID 8000 if Inner packaging <= 500 mL (17 Fl. Oz);  
Outer packaging <= 30 kg (66 lb) gross weight.

**IMDG**

**UN number** UN1219  
**UN proper shipping name** Isopropanol Solution, MARINE POLLUTANT (Doramectin)  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Packing group** II  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-E,S-D  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

Other information: Marine pollutant requirements apply only to quantities >5 Liters for liquids / >5 Kilograms for solids (per inner package) when shipped as per IMDG regulations. Limited Quantity is <= 1.0 liters per inner packaging. Outer packaging <= 30 kg. (66 lb) max.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

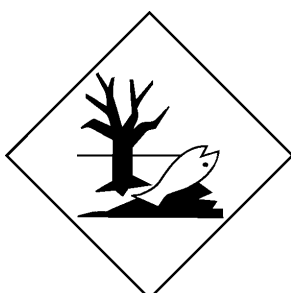
**ADG**



**IATA; IMDG; RID**



**Marine pollutant**



**General information**

Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

## 15. Regulatory information

### Safety, health and environmental regulations

**National regulations**

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

APVMA Registration No. 49665

Poison Schedule (Product): Schedule 6

This SDS replaces version: Issued October 2016

**Australia Medicines & Poisons Appendix E**

Triethanolamine (CAS 102-71-6)

**Australia Medicines & Poisons Appendix F**

Triethanolamine (CAS 102-71-6)

**Australia Medicines & Poisons Schedule 4**

Triethanolamine (CAS 102-71-6)

**Australia Medicines & Poisons Schedule 5**

DORAMECTIN (CAS 117704-25-3)

TRIETHANOLAMINE (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 102-71-6)

**Australia Medicines & Poisons Schedule 6**

DORAMECTIN (CAS 117704-25-3)

**Australia Medicines & Poisons Schedule 7**

DORAMECTIN (CAS 117704-25-3)

**High Volume Industrial Chemicals (HVIC)**

Isopropyl alcohol (CAS 67-63-0)

1000 - 9999 TONNES See the regulation for additional information.

Triethanolamine (CAS 102-71-6)

1000 - 9999 TONNES See the regulation for additional information.

**Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**

Not listed.

**National Pollutant Inventory (NPI) substance reporting list**

Not listed.

**Prohibited Carcinogenic Substances**

Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)**

Not listed.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

**Restricted Carcinogenic Substances**

Not regulated.

**International regulations****Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**International Inventories****Country(s) or region****Inventory name****On inventory (yes/no)\***

Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

<b>Issue date</b>	29-May-2018
<b>Disclaimer</b>	Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently available.
<b>Revision information</b>	Product and Company Identification: Synonyms Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Proper Shipping Name/Packing Group Regulatory Information: Other GHS: Classification