

# SAFETY DATA SHEET



## Section 1 - Identification

<b>Product identifier</b>	<b>Doramectin Injectable Solution 10 mg/ml (Phenol Free)</b>
<b>Other means of identification</b>	
<b>Synonyms</b>	DECTOMAX® * Dectomax Injectable Endectocide
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Recommended use</b>	Veterinary product used as Antiparasitic (veterinary); endectocide
<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>	productsupport.au@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)

## Section 2 - Hazard(s) identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Reproductive toxicity	Category 2
	Reproductive toxicity	Effects on or via lactation
<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)



Health hazard

Environment

#### Signal word

Warning

#### Hazard statement(s)

Suspected of damaging fertility or the unborn child. 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. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

##### Response

IF exposed or concerned: Get medical advice/attention. Collect spillage.

##### Storage

Store locked up.

##### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Supplemental information

None.

Other hazards which do not result in classification None known.

### Section 3 - Composition and information on ingredients

#### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients (%)
Sesame oil	8008-74-0	65-80
Ethyl oleate	111-62-6	20-25
Doramectin	117704-25-3	1

### Section 4 - First aid measures

#### Description of necessary first aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	In the case of skin contact, immediately wash the skin with plenty of soap and water. In the event of accidental self injection or needle stick injury, wash the injury thoroughly with clean running water. Get medical attention immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, 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.

**Personal protection for first-aid responders** IF exposed or concerned: Get medical advice/attention. You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call. 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.

**Symptoms caused by exposure** Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness, and discomfort. May cause reproductive effects. May cause tremors, clumsy motion of limbs/trunk (ataxia), disorientation through prolonged or repeated exposure. May cause reproductive effects.

**Medical attention and special treatment** Provide general supportive measures and treat symptomatically.

### Section 5 - Firefighting measures

<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed. Material will burn in a fire.
<b>Special protective equipment and precautions for fire fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Hazchem code</b>	None.
<b>General fire hazards</b>	Material will burn in a fire.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### Section 6 - Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Keep unnecessary personnel away.
<b>For emergency responders</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. 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. Wear appropriate protective equipment and clothing during clean-up. Avoid release to the environment.

Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly. Should not be released into the environment. Prevent product from entering drains.

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

**Section 7 - Handling and storage****Precautions for safe handling**

Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin, and clothing. Avoid accidental injection. Avoid prolonged exposure. Avoid contact during pregnancy/while nursing. Observe good industrial hygiene practices. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Use appropriate container to avoid environmental contamination.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store below 30°C (86°F). Keep away from heat, sparks and open flame. Store as directed by product packaging. Use appropriate container to avoid environmental contamination. Store away from incompatible materials (see Section 10 of the SDS).

**Section 8 - Exposure controls and personal protection****Control parameters**

Follow standard monitoring procedures.

**Occupational exposure limits****Zoetis****Components**

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

**Australia****Components**

Components	Type	Value	Form
Sesame oil (CAS 8008-74-0)	TWA	10 mg/m <sup>3</sup>	[As 'vegetable oil mists']

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

Components	Type	Value	Form
Sesame oil (CAS 8008-74-0)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

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

Components	Type	Value	Form
Sesame oil (CAS 8008-74-0)	TWA	4 mg/m <sup>3</sup>	Inhalable dust.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate.

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

If contact is likely, safety glasses with side shields are recommended.

**Skin protection****Hand protection**

Wear appropriate chemical resistant gloves.

**Other**

Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

**Respiratory protection**

No personal respiratory protective equipment normally required. 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.

**Thermal hazards**

Not applicable.

**Hygiene measures** Observe any medical surveillance requirements. 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.

## Section 9 - Physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Colorless to pale-yellow
<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>	Not available.
<b>Flash point</b>	224.0 °C (435.2 °F)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<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>	Insoluble
<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.

## Section 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. Excessive heat. Avoid high temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

## Section 11 - Toxicological information

### Information on possible routes of exposure

<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Prolonged skin contact may cause temporary irritation.
Doramectin	Species: Rabbit Severity: Non-irritating

<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
Doramectin	Species: Rabbit Severity: Non-irritating
<b>Ingestion</b>	May be harmful if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
<b>Symptoms related to exposure</b>	Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort. May cause reproductive effects. May cause tremors, clumsy motion of limbs/trunk (ataxia), disorientation through prolonged or repeated exposure. May cause reproductive effects.
<b>Acute toxicity</b>	Expected to be a low hazard for usual industrial or commercial handling by trained personnel.
<b>Components</b>	<b>Species</b> <b>Test Results</b>
<hr/>	
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)
Sesame oil (CAS 8008-74-0)	
<b>Acute</b>	
<b>Dermal</b>	
LD50	Rabbit > 2 g/kg
<b>Oral</b>	
LD50	Rat > 5 g/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Corrosivity</b>	
Doramectin	Species: Rabbit Severity: Non-irritating
<b>Serious eye damage/irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Eye contact</b>	
Doramectin	Species: Rabbit Severity: Non-irritating
<b>Respiratory or skin sensitisation</b>	
<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.
<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.

**Mutagenicity**

Doramectin

Bacterial Mutagenicity (Ames)

Result: Negative

Species: Salmonella

In vivo Micronucleus

Result: Negative

Species: Mouse

Mammalian Cell Mutagenicity

Result: Negative

Species: Mouse Lymphoma

Unscheduled DNA Synthesis

Result: Negative

Species: Rat Hepatocyte

**Carcinogenicity**

Based on available data, the classification criteria are not met. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child. May cause harm to breastfed babies.

**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

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

Result: NOEL

Species: Mouse

Organ: Oral

**Reproductivity**

Doramectin

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

Result: NOEL

Species: Rat

Organ: Oral

**Specific target organ toxicity - single exposure**

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

**Specific target organ toxicity - repeated exposure**

Due to partial or complete lack of data the classification is not possible. May cause damage to organs (nervous system) through prolonged or repeated exposure.

**Aspiration hazard**

Not an aspiration hazard.

**Section 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
NOEC	Eisenia foetida (Earthworm)	0.89 mg/kg, 56 days (reproduction)
<i>Acute</i> LC50	Eisenia foetida (Earthworm)	> 1000 mg/kg, 14 days
		> 1000 mg/kg, 28 days

Components	Species	Test Results
		> 1000 mg/kg, 7 days
<b>Aquatic</b>		
Algae	MIC	Selenastrum capricornutum (Green Alga) > 0.026 mg/l, 14 days
	NOEL	Selenastrum capricornutum (Green Alga) 0.026 mg/l, 14 days
<i>Acute</i>		
Crustacea	EC50	Daphnia magna (Water Flea) 0.0001 mg/l, 48 Hours
Fish	LC50	Lepomis macrochirus (Bluegill Sunfish) 0.011 mg/l, 96 Hours Oncorhynchus mykiss (rainbow trout) 0.0051 mg/l, 96 Hours

**Persistence and degradability** No data available for this product. The following information is available for the individual ingredients.

#### Photolysis

##### Half-Life (Photolysis-Aqueous)

Doramectin 4.45 hours, @ 25C

#### Biodegradability

##### Percent Degradation (Aerobic Biodegradation)

Doramectin 25.5 % OECD 301D  
Test Duration: 28 days

##### Percent Degradation (Aerobic Biodegradation-Soil)

Doramectin 50 % Loam DT50, 61-79 days

**Bioaccumulative potential** No data available for this product. The following information is available for the individual ingredients.

#### Partition coefficient

##### n-octanol / water (log Kow)

Doramectin 4.4

**Mobility in soil** No data available for this product. The following information is available for the individual ingredients.

#### 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.

## Section 13 - Disposal considerations

#### Disposal methods

Avoid release to the environment. Do not allow this material to drain into sewers/water supplies. Do not discharge into drains, water courses or onto the ground. Do not contaminate ponds, waterways or ditches with chemical or used container. 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.

#### Contaminated packaging

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

## Section 14 - Transport information

#### ADG

Not regulated as dangerous goods.

#### RID

**UN number** UN3082

**UN proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (Doramectin)

**Transport hazard class(es)**

Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

**IATA**

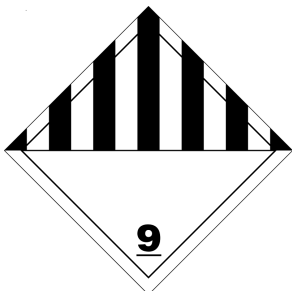
UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Doramectin)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

**IMDG**

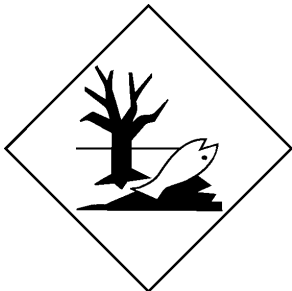
UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Doramectin), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

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

IATA; IMDG; RID



Marine pollutant

**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 Liters or less for liquids or having a net mass per single or inner packaging of 5 kilograms 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. Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

**Section 15 - Regulatory information****Safety, health and environmental regulations**

Material name: Doramectin Injectable Solution 10 mg/ml (Phenol Free)



**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.

Poison Schedule (Product) – Schedule 5

APVMA Approval No.: 46128

**Australia Medicines & Poisons Schedule 5**

Doramectin (CAS 117704-25-3)

**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)**

Not listed.

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

Not listed.

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

Sesame oil (CAS 8008-74-0)

2000 tonnes/yr Threshold Category: 2B

400 tonnes/yr Threshold Category: 2A

**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 Carcinogenic Substances**

Not regulated.

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

Not listed.

**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 Industrial Chemicals (AICIS)	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
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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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).

## Section 16 - Any other relevant information

<b>Issue date</b>	01-March-2021
<b>Revision date</b>	22-May-2023
<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 Section 2 - Hazard(s) identification: Other hazards which do not result in classification Composition / Information on Ingredients: Disclosure Overrides Section 6 - Accidental release measures: For non-emergency personnel Section 7 - Handling and storage: Conditions for safe storage, including any incompatibilities Section 11 - Toxicological information: Reproductivity Transport Information: Material Transportation Information Section 15 - Regulatory information: National regulations GHS: Qualifiers