

SAFETY DATA SHEET



Section 1 - Identification

Product identifier	REVOLUTION; STRONGHOLD
Other means of identification	
Synonyms	Selamectin topical solution- Single dose tubes * PARADYNE * REVOLUTION 6% * REVOLUTION 12% * STRONGHOLD 6 * STRONGHOLD 12
Recommended use of the chemical and restrictions on use	
Recommended use	Veterinary antiparasitic (endectocide)
Restrictions on use	Not for human use
Details of manufacturer or importer	
Company Name (AU)	Zoetis Australia Pty Ltd ABN 94 156 476 425 Level 6, 5 Rider Boulevard Rhodes NSW 2138 AUSTRALIA
Tel	1800 814 883
Fax	(02) 8876 0444
Email	productsupport.au@zoetis.com
Emergency Phone	1800 814 883 (all hours)
Police and Fire Brigade	Dial 000
If ineffective	Dial Poisons Information Centre (13 1126 from anywhere in Australia)

Section 2 - Hazard(s) identification

Classification of the hazardous chemical

Physical hazards	Flammable liquids	Category 2
Health hazards	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 2
	Specific target organ toxicity following single exposure	Category 3 narcotic effects
Environmental hazards	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)



Signal word

Danger

Hazard statement(s)

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTRE/doctor if you feel unwell. In case of fire: Use appropriate media to extinguish. Collect spillage. If eye irritation persists: Get medical advice/attention.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information	May cause slight skin irritation.
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 (%)
Isopropyl alcohol	67-63-0	72-86
Selamectin	220119-17-5	7-15
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	6-14
Butylated hydroxytoluene	128-37-0	<1

Section 4 - First aid measures

Description of necessary first aid measures

Inhalation	For breathing difficulties, oxygen may be necessary. Call a POISON CENTRE or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	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.
Ingestion	Rinse mouth. Call a physician or poison control centre immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Personal protection for first-aid responders	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. IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. For personal protection, see section 8 of the SDS. 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.
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Symptoms caused by exposure	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Mild skin irritation.
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Medical attention and special treatment	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
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Section 5 - Firefighting measures

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	2YE
General fire hazards	Highly flammable liquid and vapour.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

Extinguishing media

Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide (CO ₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	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

For non-emergency personnel	Keep unnecessary personnel away.
For emergency responders	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

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.
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Methods and materials for containment and cleaning up	Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Extinguish all flames in the vicinity. Keep combustibles (wood, paper, oil etc) away from spilled material. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas.
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Large Spills: Stop the flow of material, if this is without risk. Ground container and transfer equipment to eliminate static electric sparks. Take precautionary measures against static discharge. 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.

Section 7 - Handling and storage

Precautions for safe handling	Highly flammable. May be ignited by open flame. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not taste or swallow. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment. Avoid prolonged exposure.
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Also, Industrial use: Take precautionary measures against static discharges. Use only non-sparking tools. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Ground and bond containers when transferring material. 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. Store below 30°C (86°F) Store in a cool, dry place out of direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition. 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).
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Also, Industrial use: Keep in an area equipped with sprinklers. 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. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Section 8 - Exposure controls and personal protection

Control parameters	Follow standard monitoring procedures.
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Occupational exposure limits

Zoetis

Components	Type	Value
Selamectin (CAS 220119-17-5)	TWA	200 µg/m ³

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

Components	Type	Value
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m ³
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	TWA	308 mg/m ³
Isopropyl alcohol (CAS 67-63-0)	STEL	50 ppm
		1230 mg/m ³
		500 ppm
	TWA	983 mg/m ³
		400 ppm

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Butylated hydroxytoluene (CAS 128-37-0)	TWA	2 mg/m ³	Inhalable fraction and vapour.
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	TWA	50 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Type	Value
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m ³
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	TWA	308 mg/m ³
Isopropyl alcohol (CAS 67-63-0)	STEL	50 ppm
		1250 mg/m ³
		500 ppm
	TWA	999 mg/m ³
		400 ppm

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

Components	Type	Value	Form
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m ³	Vapor and aerosol, inhalable fraction.
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	TWA	310 mg/m ³	Vapour.
Isopropyl alcohol (CAS 67-63-0)	TWA	50 ppm	Vapour.
		500 mg/m ³	
		200 ppm	

Biological limit values

ACGIH Biological Exposure Indices (BEI)

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.

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.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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.

Provide eyewash station and safety shower. Industrial use: Provide adequate general and local exhaust ventilation.

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

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

Skin protection

Hand protection Wear protective gloves.

Industrial use: Wear appropriate chemical resistant gloves. Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.

Other Not normally needed.

Industrial use: Wear suitable protective clothing. Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.

Respiratory protection No personal respiratory protective equipment normally required.

Industrial use: In case of insufficient ventilation, wear suitable respiratory equipment. 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 and full facepiece.

Thermal hazards Not applicable.

Hygiene measures

Observe any medical surveillance requirements. When using do not 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

Appearance	Liquid solution.
Physical state	Liquid.
Form	Liquid.
Colour	Yellow. - Colourless.
Odour	Characteristic alcohol odor.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	194 °C (381.2 °F) estimated
Initial boiling point and boiling range	84 °C (183.2 °F)
Flash point	19.0 °C (66.2 °F)
Evaporation rate	Not available.
Vapour pressure	Not available.
Vapour density	Not available.

Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other physical and chemical parameters	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Specific gravity	> 0.82 - < 0.85

Section 10 - Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, spark, open flames and other sources of ignition. Sunlight. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidising agents. Isocyanates. Chlorine. Combustible material. organic materials.
Hazardous decomposition products	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

Inhalation	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Isopropyl alcohol	Result: Irritation Species: Rabbit Severity: Mild
DIPROPYLENE GLYCOL METHYL ETHER	Species: Rabbit Severity: Mild
Selamectin	Species: Rabbit Severity: Minimal
Butylated hydroxytoluene	Species: Rabbit Severity: Moderate

Eye contact	Causes serious eye irritation.
Isopropyl alcohol	Result: Irritation Species: Rabbit Severity: Severe
DIPROPYLENE GLYCOL METHYL ETHER	Species: Rabbit Severity: Mild
Selamectin	Species: Rabbit Severity: Mild

Eye contact

Butylated hydroxytoluene

Species: Rabbit
Severity: Moderate**Ingestion**

Health injuries are not known or expected under normal use. May be harmful if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms related to exposure

Headache. Nausea, vomiting. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Mild skin irritation. Prolonged exposure may cause chronic effects.

Acute toxicity

May be harmful if swallowed.

Components	Species	Test Results
Butylated hydroxytoluene (CAS 128-37-0)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Intraperitoneal		
LD50	Mouse	138 mg/kg
Oral		
LD50	Mouse	650 mg/kg
	Rat	1700 mg/kg
		890 mg/kg
Chronic		
Oral		
LOAEL	Mouse	2000 mg/kg, 4 days Liver, Kidney, Ureter, Bladder
	Rat	5185 mg/kg, 4 weeks Liver
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)		
Acute		
Dermal		
LD50	Rabbit	9510 mg/kg
Inhalation		
<i>Vapour</i>		
LC50	Rat	> 3.35 mg/l, 7 hours (No deaths)
Oral		
LD50	Rat	> 5000 mg/kg
Isopropyl alcohol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
Inhalation		
LC50	Rat	16000 ppm, 8 hours 51.05 mg/l, 8 Hours 30 mg/l
Oral		
LD50	Mouse	3600 mg/kg
	Rat	> 2000 mg/kg
Chronic		
Inhalation		
NOAEL	Rat	4000 ppm, 20 weeks (Liver, Central nervous system)

Components	Species	Test Results
Selamectin (CAS 220119-17-5)		
Acute		
Oral		
LD50	Mouse	> 1600 mg/kg
	Rat	> 1600 mg/kg
Subchronic		
Oral		
NOAEL	Dog	40 mg/kg/day, 3 months [Target organ(s): None identified]
	Rat	5 mg/kg/day, 3 months [Target organ(s): Liver]
Skin corrosion/irritation	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	
Corrosivity		
Isopropyl alcohol		Result: Irritation Species: Rabbit Severity: Mild
DIPROPYLENE GLYCOL METHYL ETHER		Species: Rabbit Severity: Mild
Selamectin		Species: Rabbit Severity: Minimal
Serious eye damage/irritation	Causes serious eye irritation.	
Eye contact		
Isopropyl alcohol		Result: Irritation Species: Rabbit Severity: Severe
DIPROPYLENE GLYCOL METHYL ETHER		Species: Rabbit Severity: Mild
Selamectin		Species: Rabbit Severity: Mild
Butylated hydroxytoluene		Species: Rabbit Severity: Moderate
Respiratory or skin sensitisation		
Respiratory sensitisation	Not a respiratory sensitizer.	
Skin sensitisation	This product is not expected to cause skin sensitisation.	
Skin Sensitisation		
Selamectin		GPMT Species: Guinea Pig Severity: Negative
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Mutagenicity		
Isopropyl alcohol		Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella
Selamectin		Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella
		In Vitro Cytogenetics Result: Negative Species: Human lymphocytes

Mutagenicity

Isopropyl alcohol

In Vitro Sister Chromatid Exchange
Result: Negative

DIPROPYLENE GLYCOL METHYL ETHER

In vitro tests
Result: Negative

Selamectin

In Vivo Micronucleus
Result: Negative
Species: MouseMammalian Cell Mutagenicity
Result: Negative
Species: Chinese Hamster Ovary (CHO) cells HGPRT

Isopropyl alcohol

Mammalian Cell Mutagenicity
Result: Negative
Species: HGPRT Chinese Hamster Ovary (CHO) cells**Carcinogenicity****ACGIH Carcinogens**

Butylated hydroxytoluene (CAS 128-37-0)

A4 Not classifiable as a human carcinogen.

Isopropyl alcohol (CAS 67-63-0)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Butylated hydroxytoluene (CAS 128-37-0)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Developmental effects

Selamectin

10 mg/kg/day Prenatal & Postnatal Development,
Developmental toxicity
Result: NOAEL
Species: Rat

Isopropyl alcohol

1200 mg/kg/day Prenatal & Postnatal Development, No
effects at maximum dose
Result: NOAEL
Species: Rat
Organ: Oral

Selamectin

40 mg/kg/day Prenatal & Postnatal Development, Maternal
Toxicity
Result: NOAEL
Species: Rat
Organ: Oral

Butylated hydroxytoluene

6 g/kg Embryo / Fetal Development, teratogenic
Result: LOEL
Species: Rat
Organ: Oral

Isopropyl alcohol

7000 ppm Prenatal & Postnatal Development, Maternal
toxicity, Fetotoxicity, Embryotoxicity
Result: LOAEL
Species: Rat
Organ: Inhalation

DIPROPYLENE GLYCOL METHYL ETHER

Not teratogenic

Reproductivity

Selamectin

10 mg/kg/day Reproductive & Fertility, Fetotoxicity
Result: NOAEL
Species: Rat

Reproductivity
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 or dizziness.
Specific target organ toxicity - repeated exposure Not classified.
Aspiration hazard Not an aspiration hazard.
Chronic effects Prolonged inhalation may be harmful.
Other information Caution - Pharmaceutical agent.

Section 12 - Ecological information

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

Components		Species	Test Results
Isopropyl alcohol (CAS 67-63-0)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	> 1400 mg/l, 96 hours
Selamectin (CAS 220119-17-5)			
Aquatic			
Algae	EC50	<i>Selenastrum capricornutum</i> (Green Alga)	> 763 ug/l, 72 Hours
Crustacea	EC50	<i>Daphnia magna</i> (Water Flea)	26 ng/l, 48 Hours
	LC50	<i>Mysidopsis bahia</i> (Mysid Shrimp)	28 ng/l, 96 Hours
Fish	LC50	<i>Cyprinodon variegatus</i> (Sheepshead Minnow)	> 28 ug/l, 48 Hours
		<i>Oncorhynchus mykiss</i> (rainbow trout)	266 ug/l, 96 Hours

Persistence and degradability No data is available on the degradability of this product. As with other members of the avermectin family, selamectin 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.

Biodegradability

Percent Degradation (Aerobic Biodegradation)

DIPROPYLENE GLYCOL METHYL ETHER

Result: Readily biodegradable

Bioaccumulative potential No data available for this product. Not expected to bioaccumulate. The following information is available for the individual ingredients.

Partition coefficient n-octanol / water (log Kow)

Selamectin

3.1, [Measured, Log P]

Mobility in soil The product is immiscible with water and will spread on the water surface. No data available for this product.

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 incinerate sealed containers. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. Industrial use: 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. Do not contaminate ponds, waterways or ditches with chemical or used container.
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. Industrial use:
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

ADG

UN number	UN1219
UN proper shipping name	Isopropanol Solution
Transport hazard class(es)	
Class	3
Subsidiary hazard	-
Packing group	II
Environmental hazards	No
Hazchem code	2YE
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. See "excepted quantity" provisions if applicable.

RID

UN number	UN1219
UN proper shipping name	Isopropanol Solution
Transport hazard class(es)	
Class	3
Subsidiary hazard	-
Packing group	II
Environmental hazards	Yes (Selamectin)
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. See "excepted quantity" provisions if applicable.

IATA

UN number	UN1219
UN proper shipping name	Isopropanol Solution
Transport hazard class(es)	
Class	3
Subsidiary hazard	-
Packing group	II
Environmental hazards	Marine Pollutant (Selamectin) >5L / 5Kg
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. See "excepted quantity" provisions if applicable.

IMDG

UN number	UN1219
UN proper shipping name	Isopropanol Solution, MARINE POLLUTANT (Selamectin)
Transport hazard class(es)	
Class	3
Subsidiary hazard	-
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.

See "excepted quantity" provisions if applicable. Marine pollutant requirements apply only to quantities >5 Liters for liquids / >5 Kilograms for solids (per inner package) when shipped as per IMDG, IATA or ADR regulations.

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

For small quantities packed in combination packaging, exceptions may apply. See "excepted quantity" provisions if applicable. 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

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. This Safety Data Sheet was prepared in accordance with the Australia Model Code of Practice for the preparation of safety data sheets for hazardous chemicals.

APVMA Registration No: 50867, 50881, 50882

Australia Medicines & Poisons Appendix B

DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)

High Volume Industrial Chemicals (HVIC)

Isopropyl alcohol (CAS 67-63-0)

1000 - 9999 TONNES See the regulation for additional information.

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

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 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	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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).

Section 16 - Any other relevant information**Issue date** 12-December-2019**Revision date** 08-August-2024**Key abbreviations or acronyms used** AICIS: Australian Inventory of Industrial Chemicals.**Disclaimer** 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.**Revision information** Section 7 - Handling and storage: Precautions for safe handling
Section 7 - Handling and storage: Conditions for safe storage, including any incompatibilities
Physical & Chemical Properties: Multiple Properties