SAFETY DATA SHEET



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 chem	nical and restrictions on use
Recommended use	Veterinary antiparasitic (endectocide)
Restrictions on use	Not for human use
Details of manufacturer or imp	orter
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)

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



Signal word Hazard statement(s)

Hazard symbol(s)

Danger

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. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection/face protection. Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapour.

Response	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 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. 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. In case of fire: Use appropriate media for extinction. Collect spillage.
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.
Other hazards which do not result in classification	None known.
Supplemental information	May cause slight skin irritation.

3. Composition/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

4. First-aid measures

Description of necessary first aid measures

Inhalation	Move to fresh air. Call a POISON CENTRE or doctor/physician if you feel unwell. For breathing difficulties, oxygen may be necessary.
Skin contact	Take off immediately all contaminated clothing. Wash off with soap and plenty of water. 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. Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Personal protection for first-aid responders	IF exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of the SDS. Take off all contaminated clothing immediately. 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. Wash contaminated clothing before reuse.
Symptoms caused by exposure	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause respiratory irritation. Mild skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Medical attention and special treatment	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
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	Local authorities should be advised if significant spillages cannot be contained.
For emergency responders	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 contact with eyes, skin, and clothing. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use appropriate containment to avoid environmental contamination. 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.
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. Prevent product from entering drains.
	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. Ventilate the contaminated area. 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. 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.
	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. Keep containers tightly closed in a cool, well-ventilated place. < 30C/86F. Protect from 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).
	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.
8. Exposure controls and p	personal protection
Control parameters	Follow standard monitoring procedures.

Zoetis Components	Туре	Value
Selamectin (CAS 220119-17-5)	TWA	200 µg/m³

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

Components	Гуре	value	
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m3	
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	1230 mg/m3	
		500 ppm	
	TWA	983 mg/m3	
		400 ppm	

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

Environment) Components	Туре	Value	
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m3	
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	
lsopropyl alcohol (CAS 67-63-0)	STEL	1230 mg/m3	
		500 ppm	
	TWA	983 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	Form
Butylated hydroxytoluene (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	STEL	150 ppm	
	TWA	100 ppm	
sopropyl alcohol (CAS 57-63-0)	STEL	400 ppm	
	TWA	200 ppm	
UK. EH40 Workplace Exposure Li	mits (WELs)		
Components	Туре	Value	
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m3	
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	
lsopropyl alcohol (CAS 67-63-0)	STEL	1250 mg/m3	
		500 ppm	
	TWA	999 mg/m3	

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

Components	Ту	rpe	Va	alue	Form
Butylated hydroxytoluene (CAS 128-37-0)	T۷	VA	10) mg/m3	Vapor and aerosol, inhalable fraction.
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	. Τν	VA	31	0 mg/m3	Vapour.
			50) ppm	Vapour.
Isopropyl alcohol (CAS 67-63-0)	ΤV	VA	50	0 mg/m3	
			20	0 ppm	
Biological limit values					
Germany. TRGS 903, BA Components	AT List (Biological Lin Value	nit Values) Determinant	Specimen	Sampling T	ïme
Isopropyl alcohol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*	
,	25 mg/l	Aceton	Blood	*	
* - For sampling details, p	lease see the source d	ocument.			
ACGIH Biological Expos Components	sure Indices Value	Determinant	Specimen	Sampling T	ïme
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	
* - For sampling details, p	lease see the source d	ocument.			
Exposure guidelines					
US ACGIH Threshold Li	mit Values: Skin desid	unation			
	COL METHYL ETHER	-	e absorbed throu	ugh the skin.	
Appropriate engineering controls	General ventilation	on normally adequate).		
Controls	Industrial use: Provide adequate 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.				
Individual protection measu Eye/face protection			• • •	s with side shiel	ds are recommended.
	Industrial use: W	ear safety glasses wi	th side shields (o	or goggles).	
Skin protection			·		
Hand protection	Wear protective gloves.				
	Industrial use: W	ear appropriate chem	nical resistant glo	oves.	
Other	Not normally nee	eded.			
	Industrial use: Wear suitable protective clothing. Impervious protective clothing is recommended i skin contact with drug product is possible and for bulk processing operations.				
Respiratory protection	No personal resp	piratory protective equ	ipment normally	required.	
	applicable Occup protection factor		nit (OEL) is exce	eded, wear an a	ory equipment. If the appropriate respirator with a emical respirator with organic
Thermal hazards	Wear appropriate	e thermal protective c	lothing, when ne	cessary.	
Hygiene measures	personal hygiene	e measures, such as	washing after ha	ndling the mate	moke. Always observe good rial and before eating, e equipment to remove

9. Physical and chemical properties

Appearance	Liquid solution.
Physical state	Liquid.
Form	Liquid.
Colour	Yellow Colourless.
Odour	Characteristic alcohol odor.
Odour threshold	Not available.
рН	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.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	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.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other physical and chemical par	ameters
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Specific gravity	0.82 - 0.85

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	Contact with incompatible materials. Sunlight. Keep away from heat, spark, open flames and other sources of ignition.
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.

11. Toxicological information

Information on possible routes of exposure

Inha	lation	
mma		

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact		t may defat and dry the skin, leading to discomfort and
Isopropyl alcohol	dermatitis.	Result: Irritation Species: Rabbit Severity: Mild
DIPROPYLENE GLYCOL ME	THYL ETHER	Species: Rabbit Severity: Mild
Selamectin		Species: Rabbit Severity: Minimal
Butylated hydroxytoluene		Species: Rabbit Severity: Moderate
Eye contact Isopropyl alcohol	Causes serious eye irritation.	Result: Irritation Species: Rabbit Severity: Severe
DIPROPYLENE GLYCOL ME	THYL ETHER	Species: Rabbit Severity: Mild
Selamectin		Species: Rabbit Severity: Mild
Butylated hydroxytoluene		Species: Rabbit Severity: Moderate
Ingestion		or expected under normal use. May be harmful if n is not likely to be a primary route of occupational
Symptoms related to exposure	blurred vision. May cause drov cause respiratory irritation. Mil	ns may include stinging, tearing, redness, swelling, and wsiness and dizziness. Headache. Nausea, vomiting. May d skin irritation. Frequent or prolonged contact may defat scomfort and dermatitis. Prolonged exposure may cause
Acute toxicity	May be harmful if swallowed.	
Components	Species	Test Results
Butylated hydroxytoluene (CAS 12	28-37-0)	
Acute		
Intraperitoneal		
LD50	Mouse	138 mg/kg
Oral		
LD50	Mouse	650 mg/kg
	Rat	1700 mg/kg
		890 mg/kg
<u>Chronic</u>		
Oral	N.A	
LOAEL	Mouse	2000 mg/kg, 4 days Liver Kidney Ureter Bladder
	Pat	5195 malka Awarka Livar
		5185 mg/kg, 4 weeks Liver
		5185 mg/kg, 4 weeks Liver
Acute		5185 mg/kg, 4 weeks Liver
		5185 mg/kg, 4 weeks Liver 9510 mg/kg

Components	Species		Test Results
Inhalation			
Vapour			
LC50	Rat		> 3.35 mg/l, 7 hours (No deaths)
Oral			
LD50	Rat		> 5000 mg/kg
sopropyl alcohol (CAS 67-63-0)			
Acute			
Dermal			
LD50	Rabbit		12800 mg/kg
Inhalation			
LC50	Rat		16000 ppm, 8 hours
			30 mg/l
Oral			oo mga
LD50	Mouse		3600 mg/kg
LD30			
	Rat		> 2000 mg/kg
<u>Chronic</u>			
Inhalation	_		
NOAEL	Rat		4000 ppm, 20 weeks (Liver, Central
			nervous system)
Selamectin (CAS 220119-17-5)			
<u>Acute</u>			
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	t may defat and dry th	e skin, leading to discomfort and dermatitis
Corrosivity		, , , , , , , , , , , , , , , , , , ,	
Isopropyl alcohol		Result: Irritation Species: Rabbit Severity: Mild	
DIPROPYLENE GLYC	OL 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 GLYC	OL METHYL ETHER	Species: Rabbit Severity: Mild	
Selamectin		Species: Rabbit Severity: Mild	

Eye contact Butylated hydroxytoluene		Species: Rabbit Severity: Moderate
Respiratory or skin sensitisation	l	
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 pr mutagenic or genotoxic.	roduct or any components present at greater than 0.1% are
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
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: Mouse
		Mammalian 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	Due to partial or complete lack	of data the classification is not possible.
ACGIH Carcinogens		
Butylated hydroxytoluene Isopropyl alcohol (CAS 67 IARC Monographs. Overall E		A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen.
Butylated hydroxytoluene	,	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Suspected of damaging fertility	<i>i</i> 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

	Developmental effects 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 Isopropyl alcohol	 10 mg/kg/day Reproductive & Fertility, Fetotoxicity Result: NOAEL Species: Rat 1000 mg/kg/day 2 Generation Reproductive Toxicity, Maternal Toxicity, Fetal mortality Result: LOAEL Species: Rat
		Örgan: Oral
ecitio	c target organ toxicity - May cause drowsiness and diz	ziness.

Specific target organ toxicity - single exposure	May cause drowsiness and dizziness
Specific target organ toxicity - repeated exposure	Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity

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

Components		Species	Test Results
Isopropyl alcohol (CAS 67-63-0)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Selamectin (CAS 220119-17-5)			
	EC50	Selenastrum capricornutum (Green Alga)	> 763 ug/l, 72 Hours
Aquatic			
Crustacea	EC50	Daphnia magna (Water Flea)	26 ng/L, 48 Hours
	LC50	Mysidopsis bahia (Mysid Shrimp)	28 ng/L, 96 Hours
Fish	LC50	Cyprinodon variegatus (Sheepshead Minnow)	> 28 ug/l, 48 Hours
		Oncorhynchus mykiss (rainbow trout)	266 ug/l, 96 Hours
Persistence and degradability	family, selan with soil, it is	vailable on the degradability of this product nectin is highly toxic to fish and certain aqua tightly bound and does not readily desorb. adable by soil microflora.	atic organisms. However, once in contact
Biodegradability Percent Degradation (DIPROPYLENE GLYCO	-		adable

Bioaccumulative potential Partition coefficient	No data available for this product. Not expected to bioaccumulate.		
n-octanol / water (log Kow) Selamectin	3.1, [Measured, Log P]		
Mobility in soil	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.		
13. Disposal consideration	าร		
Disposal methods	Avoid release to the environment. 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. Dispose of contents/container in accordance with local/regional/national/international regulations.
Residual waste	Industrial use: 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

14. Transport information

ADG

RID

ADG	
UN number	UN1219
UN proper shipping name	Isopropanol Solution
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	I
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.

emptied.

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

 Subsidiary risk

 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 numberUN1219UN proper shipping nameIsopropanol Solution, MARINE POLLUTANT (Selamectin)

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. 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 Not established. Annex II of MARPOL 73/78 and the IBC Code

ADG



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.

15. Regulatory information

Safety, health and environmental regulations

National regulations

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

This SDS replaces version: Issued October 2016

Australia Medicines & Poisons Appendix A	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Appendix B	
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34	4590-94-8)
Australia Medicines & Poisons Appendix D	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Appendix E	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Appendix F	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Appendix G	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Appendix H	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Appendix I	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Appendix J	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Appendix K	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 10	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 2	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 3	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 4	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 5	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 6	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 7	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 8	
Poisons schedule number not allocated.	
Australia Medicines & Poisons Schedule 9	
Poisons schedule number not allocated.	
High Volume Industrial Chemicals (HVIC)	
Isopropyl alcohol (CAS 67-63-0)	1000 - 9999 TONNES See the regulation for additional
	information.
Importation of Ozone Deleting Substances (Customs	(Prohibited imports) Regulations 1956, Schedule 10)
Not listed.	- list
National Pollutant Inventory (NPI) substance reportin	glist
Not listed.	
Prohibited Carcinogenic Substances	
Not regulated.	w the control of Workplace Hererdove Substances, Schodule 2
NOHSC:1005 (1994) as amended)	or the control of Workplace Hazardous Substances, Schedule 2
Not listed. Respirated Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)
Not listed.	(ousions(Fromblied imports) Regulations 1950, Schedule 3)
Restricted Carcinogenic Substances	
Not regulated.	
rnational 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
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).

16. Other information

Issue date	12-December-2019
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	Product and Company Identification: Synonyms Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information Regulatory Information: Other GHS: Classification