

## Section 1: Identification

<b>Product identifier</b>	<b>Simparica™ (Sarolaner) Chewable Tablets</b>
<b>Other means of identification</b>	
<b>Synonyms</b>	Simparica * Simparica™ Chews for Dogs * Simparica™ (sarolaner) Chewables * Sarolaner
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Recommended use</b>	Veterinary product used as antiparasitic
<b>Restrictions on use</b>	Not for human use
<b>Details of manufacturer or importer</b>	
<b>Company Name (NZ)</b>	Zoetis New Zealand Limited Level 4, 8 Mahuhu Crescent Auckland Central Auckland 1010, New Zealand
<b>Telephone No.</b>	0800 963 847 (Business Hours)
<b>Emergency No. (National Poisons Centre)</b>	0800 POISON (0800 764 766)
<b>Emergency No. (Emergency Services)</b>	In an emergency dial 111

## Section 2: Hazard identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Not classified.	
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

### Label elements, including precautionary statements

#### Hazard symbol(s)



Environment

**Signal word** None.

**Hazard statement(s)** Toxic to aquatic life with long lasting effects.

#### Precautionary statement(s)

<b>Prevention</b>	Avoid release to the environment.
<b>Response</b>	Collect spillage.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards which do not result in classification** None.

**Supplemental information** May form combustible dust concentrations in air. Direct contact with eyes may cause temporary irritation.

## Section 3: Composition/information on ingredients

### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Sarolaner isoxazoline	1398609-39-6	4
Magnesium stearate	557-04-0	<1
Silicon dioxide, colloidal NF	7631-86-9	<1

Flavor	Not assigned
Lactose monohydrate	64044-51-5

## Section 4: First-aid measures

### Description of necessary first aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
<b>Eye contact</b>	Do not rub eyes. Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. 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>	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.
<b>Symptoms caused by exposure</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Medical attention and special treatment</b>	Treat symptomatically.

## Section 5: Fire-fighting measures

### Extinguishing media

<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.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed. Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride. May include products of fluorine.
<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>	Use water spray to cool unopened containers. During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.
<b>Hazchem code</b>	None.
<b>Hazards from combustion products</b>	Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride.
<b>General fire hazards</b>	During processing, dust may form explosive mixture in air. Fine particles (such as mists) may fuel fires/explosions.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## 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. Keep people away from and upwind of spill/leak. Ventilate the contaminated area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Do not breathe dust. Avoid dust formation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
<b>Environmental precautions</b>	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**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid dust formation. Ensure adequate ventilation. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Ground/bond container and equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Small Spills: Wipe up with a damp cloth and place in container for disposal. 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. Prevent release to the environment.

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

Observe good industrial hygiene practices. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Wear appropriate personal protective equipment. Avoid contact with skin. When using, do not eat, drink or smoke. Wash thoroughly after handling. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes. Wash contaminated clothing before reuse. Avoid release to the environment.

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

Use care in handling/storage. Keep away from heat, sparks and open flame. Protect from sunlight. Store in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Store below 30°C (86°F) Store away from incompatible materials (see Section 10 of the SDS).

**Section 8: Exposure controls/personal protection****Control parameters**

Follow standard monitoring procedures.

**Occupational exposure limits****Zoetis****Components****Type****Value**

Sarolaner isoxazoline (CAS 1398609-39-6)

TWA

110 µg/m<sup>3</sup>

**New Zealand. OELs (Workplace Exposure Standards and Biological Exposure Indices)****Components****Type****Value****Form**

Magnesium Stearate (CAS 557-04-0)

TWA

10 mg/m<sup>3</sup>

Silicon dioxide, colloidal NF (CAS 7631-86-9)

TWA

3 mg/m<sup>3</sup>

Respirable dust.

10 mg/m<sup>3</sup>

Inhalable dust.

**US. ACGIH Threshold Limit Values (TLV)****Components****Type****Value****Form**

Magnesium Stearate (CAS 557-04-0)

TWA

3 mg/m<sup>3</sup>

Respirable fraction.

10 mg/m<sup>3</sup>

Inhalable fraction.

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

Magnesium Stearate (CAS 557-04-0)

TWA

10 mg/m<sup>3</sup>

Inhalable dust.

Silicon dioxide, colloidal NF (CAS 7631-86-9)

TWA

2 mg/m<sup>3</sup>

Respirable dust.

**Biological limit values**

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

**Control banding approach**

Not available.

**Appropriate engineering controls**

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. 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**

Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.

**Other**

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

<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely.
<b>Thermal hazards</b>	Not applicable.
<b>Hygiene measures</b>	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

<b>Physical state</b>	Solid.
<b>Form</b>	Solid. Tablet.
<b>Colour</b>	Light brown.
<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>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.

### Upper/lower flammability or explosive limits

<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>Kinematic viscosity</b>	Not available.

### Other physical and chemical parameters

#### Dust explosion properties

<b>Minimum Ignition Energy (MIE) - dust cloud</b>	240 mJ
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#### Electrostatic properties

<b>Resistivity at ambient humidity</b>	>E+12 @ 50% rH, 24C
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<b>Explosive properties</b>	Not explosive.
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<b>Oxidising properties</b>	Not oxidising.
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## 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>	Protect from sunlight. Contact with incompatible materials. Avoid dispersion as a dust cloud.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride. May include products of fluorine.

## Section 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
Sarolaner isoxazoline	Species: Rabbit Severity: Non-irritating

<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
Sarolaner isoxazoline	Species: Rabbit Severity: Minimal

**Ingestion** May cause discomfort if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
Simparica™ (Sarolaner) Chewable Tablets		

#### Acute

##### Oral

LD50 > 10000 mg/kg (Calculated ATE)

Components	Species	Test Results
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Lactose monohydrate (CAS 64044-51-5)

#### Acute

##### Oral

LD50 Rat 29700 mg/kg

Magnesium stearate (CAS 557-04-0)

#### Chronic

##### Oral

LOAEL Rat 1092 g/kg, 13 weeks Liver

Sarolaner isoxazoline (CAS 1398609-39-6)

#### Acute

##### Dermal

LD50 Rat > 2020 mg/kg

##### Oral

LD50 Rat 783 mg/kg

#### Subacute

##### Oral

NOAEL Rat 2.5 mg/kg/day, 14 days (Adrenal gland)  
2.2 mg/kg/day, 30 days (Adrenal gland, Ovary, Liver)

#### Subchronic

##### Oral

NOAEL Rat 25 mg/kg/day, 90 days (Adrenal gland, Ovary, Pancreas)

Silicon dioxide, colloidal NF (CAS 7631-86-9)

#### Acute

##### Oral

LD50 Rat > 22500 mg/kg

**Skin corrosion/irritation** Not expected to cause skin irritation.

#### **Irritation Corrosion - Skin**

Sarolaner isoxazoline Result: Non-irritant  
Species: Rabbit

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Eye contact**  
Sarolaner isoxazoline

Species: Rabbit  
Severity: Minimal

**Respiratory irritation** Not available.

**Respiratory or skin sensitisation**

**Respiratory sensitisation** Not a respiratory sensitiser.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

**Skin Sensitisation**  
Sarolaner isoxazoline

LLNA  
Species: Mouse  
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**  
Sarolaner isoxazoline

Bacterial Mutagenicity (Ames)  
Result: Negative  
Species: Salmonella , E. coli

Lactose monohydrate

In Vitro Bacterial Mutagenicity (Ames)  
Species: Salmonella , E. coli

Sarolaner isoxazoline

In Vitro Chromosome Aberration  
Result: Negative  
Species: Human lymphocytes

In Vitro Micronucleus  
Result: Negative  
Species: Chinese Hamster Ovary (CHO) cells

In Vivo Micronucleus  
Result: Negative  
Species: Rat

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

**ACGIH Carcinogens**

Magnesium stearate (CAS 557-04-0)

A4 Not classifiable as a human carcinogen.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Silicon dioxide, colloidal NF (CAS 7631-86-9)

3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**Developmental effects**  
Sarolaner isoxazoline

3 mg/kg/day Embryo / Fetal Development, Maternal Toxicity  
Not Teratogenic  
Result: NOAEL  
Species: Rabbit  
Organ: Oral

3.2 mg/kg/day Embryo / Fetal Development, Maternal toxicity  
Not teratogenic  
Result: NOAEL  
Species: Rat  
Organ: Oral

**Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Not an aspiration hazard.

**Narcotic effects** Due to lack of data the classification is not possible.

**Chronic effects** Prolonged inhalation may be harmful. Based on available data, the classification criteria are not met.

## Section 12: Ecological information

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

Components	Species		Test Results
Sarolaner isoxazoline (CAS 1398609-39-6)			
Aquatic			
Algae	EC50	Pseudokirchneriella subcapitata (Green Alga)	> 0.27 mg/l, 72 Hours (ErC50)
Crustacea	EC50	Daphnia magna (Water Flea)	0.27 mg/l, 48 Hours
Fish	LC50	Fish	> 0.54 mg/l, 96 Hours
Persistence and degradability	No data available for this product.		
Bioaccumulative potential	No data available for this product. The following information is available for the individual ingredients.		
Partition coefficient n-octanol / water (log Kow)			
Sarolaner isoxazoline	3.25		
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.		

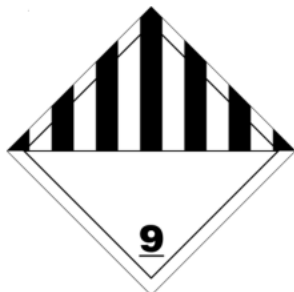
### Section 13: Disposal considerations

<b>Disposal methods</b>	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. 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.
<b>Residual waste</b>	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.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>Special precautions to be taken during disposal</b>	Dispose in accordance with all applicable regulations.
<b>Method of disposal that should not be used</b>	None known.

### Section 14: Transport information

<b>IATA</b>	
<b>UN number</b>	UN3077
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Solid, n.o.s (Isoxazoline)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>IMDG</b>	
<b>UN number</b>	UN3077
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Isoxazoline), MARINE POLLUTANT (Isoxazoline)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-F
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.

IATA; IMDG



Marine pollutant



General information

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

### Applicable regulations

Registered pursuant to the ACVM Act 1997, No. A11219  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.  
Approved pursuant to the HSNO Act 1996, Code No. HSR100757.  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

### New Zealand Inventory of Chemicals (NZIoC): Registration status

Lactose monohydrate (CAS 64044-51-5)	May be used as a single component chemical under an appropriate group standard
Magnesium stearate (CAS 557-04-0)	May be used as a single component chemical under an appropriate group standard
Silicon dioxide, colloidal NF (CAS 7631-86-9)	May be used as a single component chemical under an appropriate group standard

## Section 16: Other information

Issue date 08-September-2023

Version No. 01

Key abbreviations or acronyms used ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

### 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  
Exposure Controls / Personal Protection: OELs  
Physical & Chemical Properties: Multiple Properties  
Ecological Information: Ecotox Property Data  
Transport Information: Proper Shipping Name/Packing Group  
GHS: Classification