SAFETY DATA SHEETS

This SDS packet was issued with item: 078930544

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078929658 078929659 078930543 078930545 078930546 078930547 078930548 078930549 078930550 078930551 078930552 078930553 078930574 078945515

SAFETY DATA SHEET



1. Identification

Product identifier	Simparica™ (Sarolaner) Chewable Tablets	
Other means of identification		
Product code	757	
Synonyms	Simparica * Sarolaner * PF-06450567 Chewable Tablets	
Recommended use	Veterinary product used as antiparasitic	
Recommended restrictions	Not for human use	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company Name (US)	Zoetis Inc.	
	100 Campus Drive, P.O. Box 651	
	Florham Park, New Jersey 07932 (USA)	
Rocky Mountain Poison	1-866-531-8896	
and Drug Center Product Support/Technical	1-800-366-5288	
Services		
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300	
	International CHEMTREC (24 hours): +1-703-527-3887	
Contact E-Mail	VMIPSrecords@zoetis.com	
Company Name (EU)	Zoetis Belgium S.A.	
	Mercuriusstraat 20	
	1930 Zaventem	
	Belgium	
Emergency telephone number	International CHEMTREC (24 hours): +1-703-527-3887	
Contact E-Mail	VMIPSrecords@zoetis.com	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word	None.	
Hazard statement	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Avoid release to the environment. Observe good industrial hygiene practices.	
Response	Collect spillage.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	

Material name: Simparica™ (Sarolaner) Chewable Tablets

757 Version #: 01 Issue date: 02-12-2016

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Isoxazoline (PF-06450567)		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	
Composition comments	In accordance with 29 CFR 1910.1200, the e withheld as a trade secret.	exact percentage composition	of this mixture ha
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in if symptoms develop or persist.	n a position comfortable for br	eathing. Call a ph
Skin contact	Wash off with soap and water. Get medical a	ttention if irritation develops a	nd persists.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lease the medical attention if irritation develops and persists.		
Ingestion	If swallowed, do NOT induce vomiting. Rinse mouth thoroughly. Call a physician or poison con center immediately.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporal redness, swelling, and blurred vision.	ry irritation. Symptoms may in	clude stinging, tea
Indication of immediate medical attention and special treatment needed	Treat symptomatically.		
General information	Ensure that medical personnel are aware of protect themselves.	the material(s) involved, and t	ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carl carefully to avoid creating airborne dust.	oon dioxide (CO2). Apply extir	nguishing media
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as the	nis will spread the fire.	
Specific hazards arising from the chemical	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.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breath containers. Move containers from fire area if activities, wear appropriate protective equipn	you can do so without risk. Du	uring all fire fightin
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other inv	olved materials.
General fire hazards	During processing, dust may form explosive fires/explosions.	mixture in air. Fine particles (s	such as mists) ma

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Prevent product from entering drains.		
	Large Spills: Stop the flow of material, if this is without risk. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated surface thoroughly. Prevent release to the environment.		
	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.		
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.		
7. Handling and storage			
Precautions for safe handling	When handling, use appropriate personal protective equipment (see Section 8). Avoid contact with skin. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash contaminated clothing before reuse. Wash thoroughly after handling. Avoid release to the environment. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.		
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat, sparks and open flame. Keep away from food, drink and animal feedingstuffs. Use care in handling/storage.		

8. Exposure controls/personal protection

Occupational exposure limits

Zoetis	_		
Components	Туре	Value	
Isoxazoline (PF-06450567) (CAS 1398609-39-6)	TWA	110 μg/m3	
US. OSHA Table Z-3 (29 CFF	R 1910.1000)		
Components	Туре	Value	
Silicon dioxide, colloidal NF (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	
Magnesium Stearate (CAS 557-04-0)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	
Silicon dioxide, colloidal NF (CAS 7631-86-9)	TWA	6 mg/m3	
iological limit values	No biological exposure limits noted for the ingredient(s).		
ontrol banding approach	Not available.		
ppropriate engineering ontrols	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.		
dividual protection measures,	such as personal protective equip	ment	
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.		
Skin protection			
Hand protection	Wear impervious gloves if skin con	tact is possible.	
Other	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.		

Respiratory protection	No personal respiratory protective equipment normally required. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely. If engineerin 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.	
Thermal hazards	Not applicable.	
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

· · · · · · · · · · ·	
Appearance	Tablet
Physical state	Solid.
Form	Solid.
Color	Light brown.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Dust explosion properties	
Minimum ignition energy (MIE) - dust cloud	240 mJ
Electrostatic properties	
Resistivity at ambient humidity	>E+12 @ 50% rH, 24C
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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	Heat, flames and sparks. Contact with incompatible materials. Protect from sunlight. Avoid dispersion as a dust cloud.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride. May include products of fluorine.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.		
Skin contact Isoxazoline (PF-06450567)	No adverse effects due to skin contact are expected. Species: Rabbit Severity: Non-irritating		
Eye contact Isoxazoline (PF-06450567)	Direct contact with eyes may cause temporary irritation. Species: Rabbit Severity: Minimal		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.		
Information on toxicological eff	ects		
Acute toxicity			
Product	Species	Test Results	
Simparica™ (Sarolaner) Chewabl	e Tablets		
Acute			
Oral LD50		10000 mg/kg (Coloulated ATE)	
Components	Species	> 10000 mg/kg (Calculated ATE) Test Results	
Isoxazoline (PF-06450567) (CAS	•		
Acute	100000-00-0)		
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)	
Lactose Monohydrate (CAS 6404	4-51-5)		
<u>Acute</u>			
Oral LD50	Rat	29700 mg/kg	
LDOU	nai	29700 Hig/kg	

Components	Species	Test Results
Magnesium Stearate (CAS 557-0	04-0)	
<u>Chronic</u>		
Oral	Dat	
LOAEL	Rat	1092 g/kg, 13 weeks Liver
Silicon dioxide, colloidal NF (CAS	6 7631-86-9)	
Acute		
Oral LD50	Mouse	15000 ma/ka
ED30		> 15000 mg/kg
	Rat	> 22500 mg/kg
Skin corrosion/irritation	Not expected to cause skin	irritation.
Irritation Corrosion - S Isoxazoline (PF-064		Result: Non-irritant Species: Rabbit
Serious eye damage/eye rritation	Direct contact with eyes ma	ay cause temporary irritation.
Eye Contact		
Isoxazoline (PF-064	450567)	Species: Rabbit Severity: Minimal
Respiratory or skin sensitizatio	on	
Respiratory sensitization	Not a respiratory sensitizer	
Skin sensitization		d to cause skin sensitization.
Skin sensitization		
Isoxazoline (PF-064	450567)	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		
Isoxazoline (PF-064	450567)	Bacterial Mutagenicity (Ames)
		Result: Negative Species: Salmonella , E. coli
Lactose Monohydra	ate	In Vitro Bacterial Mutagenicity (Ames) Species: Salmonella, E. coli
Isoxazoline (PF-064	450567)	In Vitro Chromosome Aberration
		Result: Negative Species: Human Lymphocytes
		Species. Human Lymphocytes
		In Vitro Micronucleus
		Result: Negative Species: Chinese Hamster Ovary (CHO) cells
		In Vivo Micronucleus Result: Negative Species: Rat
		Species. nai
Carcinogenicity	This product is not conside	red to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
	Evaluation of Carcinogenic	-
	NF (CAS 7631-86-9) ed Substances (29 CFR 1910	3 Not classifiable as to carcinogenicity to humans. 0.1001-1050)
Not listed. US. National Toxicology P i Not available.	rogram (NTP) Report on Care	cinogens
Reproductive toxicity	This product is not expecte	d to cause reproductive or developmental effects.

Isoxazoline (PF-06450567)

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.
Chronic effects	Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects. Releases to the environment should be avoided.

Components		Species	Test Results	
Isoxazoline (PF-06450567) (CAS 139860	9-39-6)		
	EC50	Daphnia magna (Water Flea)	0.27 mg/L, 48 Hours	
		Pseudokirchneriella subcapitata (Gree Alga)	n > 0.27 mg/L, 72 Hours (ErC50)	
Aquatic				
Fish	LC50	Fish	> 0.54 mg/L, 96 Hours	
Persistence and degradability	No data is available on the degradability of this product.			
Bioaccumulative potential	No data available.			
Partition coefficient n-octa Isoxazoline (PF-06450567)	nol / water (I	og Kow) 3.25		
Mobility in soil	No data available.			
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	ons			
Disposal instructions	Avoid release to the environment Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Local disposal regulations	Dispose in accordance with all applicable regulations.			
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
Waste from residues / unused products	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		e emptied containers may retain product residue, follow label warnings even after container is ed. Empty containers should be taken to an approved waste handling site for recycling or sal.		

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

UN3077 **UN number** Environmentally Hazardous Substance, Solid, n.o.s (Isoxazoline) UN proper shipping name

Material name: Simparica[™] (Sarolaner) Chewable Tablets

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	UN3077
UN proper shipping name	Environmentally Hazardous Substance, Solid, n.o.s (Isoxazoline), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
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 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.

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Material name: Simparica[™] (Sarolaner) Chewable Tablets 757 Version #: 01 Issue date: 02-12-2016

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. Massachusetts RTK - Substance List

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

US. New Jersey Worker and Community Right-to-Know Act

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

- US. Pennsylvania Worker and Community Right-to-Know Law
 - Silicon dioxide, colloidal NF (CAS 7631-86-9)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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
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, including date of preparation or last revision

Issue date

02-12-2016

Material name: Simparica[™] (Sarolaner) Chewable Tablets 757 Version #: 01 Issue date: 02-12-2016

Version #	01
List of abbreviations	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	This document has undergone significant changes and should be reviewed in its entirety.