



SAFETY DATA SHEET

Seresto for kittens and cats
Seresto for dogs over 8 kg
Seresto for puppies and dogs less than or equal to 8 kg

Section 1. Identification

- Product identifier** : Seresto for kittens and cats
Seresto for dogs over 8 kg
Seresto for puppies and dogs less than or equal to 8 kg
- Product code** : 122000005913
- Other means of identification** : 1556-155; 11556-191; 85728253; 85733591; 85733605; FORESTO COLLAR; Imidacloprid 10% 4.5% flumethrin Collar - grey; Seresto Collar; Seresto collar for cats; Seresto collar for dogs; 86592541; 86592533; SERESTO COLLAR FOR DOGS < 8 KG; SERESTO COLLAR FOR DOGS > 8 KG; 81502170; 81543879; 81544131; 81806551; 81806594; 81806608; 81857944; 81857952; 81857960; 82295100; 82295127; 83989289; 83989300; 84026336; 84026344; 84320927; 84320986; 84347116; 84347132; 84373052; 84374393; 84374407; 84462846; 84532827; 84532878; 84623288; 84726095; 84726117; 85115707; 85115715; 85115731; 85126741; 85126768; 85126776; 85172557; 85248006; 85248014; 85517287; 85517317; 85517325; 85517368; 85653628; 85653636; 85661884; 85661906; 85672037; 85672061; 85678582; 85678590; 85698230; 85698265; 85712659; 85712667; 85712705; 85712721; 85712748; 85712764; 85729764; 85729780; 85729810; 85730657; 85730703; 85730711; 85744410; 85867415; 85882481; 85882503; 85895567; 85895575; 85895613; 85895648; 85907573; 85907581; 85907638; 85907670; 85907697; 85912720; 85912747; 85912755; 85912887; 85912933; 85913034; 85913042; 85913050; 85913069; 85913077; 85913093; 85920685; 85922203; 85922238; 85934643; 85934651; 85935542; 85935569; 85935585; 85941119; 85941143; 86015706; 86015722; 86015730; 86030365; 86030373; 86030403; 86030594; 86031000; 86031035; 86031434; 86031523; 86031566; 86031590; 86065789; 86084945; 86084988; 86107562; 86107570; 86107732; 86108070; 86117401; 86117444; 86117495; 86126761; 86126788; 86345471; 86345536; 86345544; 86345560; 86362546; 86362600; 86362635; 86362643; 86366177; 86366223; 86366258; 86383810; 86393859; 86412721; 86412764; 86483408; 86483688; 86483793; 86483858; 86483866; 86485060; 86485079; 86485095; 86487004; 86498030; 86508028; 86508044; 86571854; 86571862; 86581167; 86581175; 86581183; 86581213; 86592533; 86592541; 86601168; 86601303; 86609339; 86609347; 86613255; 86613271; 86613336; 86613344; 86613379; 86613409; 86621975; 86621991; 86622009; 86622041; 86622084; 86622114; 86622203; 86622238; 6624265; 86624273; 86624281; 86696754; 86696762; 86829223; 86829231; 86829258; 86837609; 86837617; 86837625; 86837641; 86837668; 86837676; 86837684; 86837692; 86837706; 86837714; 86837722; 86841835; 86841843; 86841851; 86841878; 86904616; 86904624; 86904632; 86963159; 86963167; 86992760; 86992787; 87010732; 87012034; 87012077; 87012093; 87012301; 87012352; 87012395; 87031101; 87031128; 87031136; 87031179; 87047261; 87047288; 87047350; 87047369; 87047385; 87047466; 87047571; 87048446; 87048454; 87081192; 87081206; 87081214; 87081222; 87081230; 87081249; 87089959; 87089975; 87120406; 87120414; 87120422; 87146391; 87146405; 87146413; 87146421; 87146448; 87146456; 87171477; 171485; 87171507; 87199339; 87199355; 87202410; 87202569; 7202577; 87202607; 87204960; 87204979; 87204987; 87221202; 87221210; 87221229; 87221237; 87221245; 87221261; 87379299; 87379302; 87380475; 87380483; 87380491; 87388956; 87388964; 87388972; 87397203; 87397238; 87397246; 87430359; 87430553; 87437485; 87437507; 87437558; 90197375; 90197376; 90197377; 90197627; 90197689; 90198359; 90198361; 90198363; 90200378; 90200379; 90200380; 90201673; 90201674; 90201675; 90201678; 90201679; 90201680; 90202819; 90202841; 90202942; 90202943; 90203289; 90203290; 90203341; 90203472; 90203473; 90203947; 90203948; 90204130; 90204519; 90204554; 90204722; 90204723; 90204845; 0204846; 90204847; 90205443; 90205444; 90205958; 90206029; 90206030; 90206049; 90206050; 90206063; 90206064; 90206075; 90206407; 90206408; 90206409; 90206432; 90206433; 90206434; 90207073; 90207074; 90207075;

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Seresto for puppies and dogs less than or equal to 8 kg

NZ : ENGLISH

Section 1. Identification

90207813; 90207862; 207863; 90207963; 90207964; 90208054; 90208571;
90208572; 90209213; 90209214; 90209654; 90209663; 90210468; 90210469;
90210470; 90210477; 90210544; 90210545; 90210546; 90210601; 90210602;
90210603; 90210643; 90210644; 90211016; 90211017; 90211018; 90211092;
90211093; 90211094; CA8534; CA8541; 86126761; 86030594; 86126788; CA8524;
CA8530

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	: Veterinary product.
Uses advised against	: None known.
Company Name	: Elanco New Zealand 106 Wiri Station Road, Manukau, Auckland 2140
Telephone number	: +64 0800 352 626 0800 446 121 (Adverse Events Local Number)
Emergency telephone number	: CHEMTREC International: 00 1 703-527-3887 (24 hours) CHEMTREC: +64 9-801 0034 (Local) CHEMTREC: 0800 425 459 (Freephone)
Email	: elanco_sds@elancoah.com

Section 2. Hazards identification

HSNO Approval Number	: HSR100757
HSNO Group Standard	: Veterinary Medicines (Limited Pack Size, Finished Dose)
HSNO Classification	: ACUTE TOXICITY (oral) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 53%

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2020 Transport of Dangerous Goods on Land.

GHS label elements

Signal word	: Danger
Hazard statements	: H301 - Toxic if swallowed. H373 - May cause damage to organs through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.
<u>Precautionary statements</u>	
General	: Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.
Prevention	: P273 - Avoid release to the environment. P260 - Do not breathe dust. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	: P391 - Collect spillage. P301 + P310, P330 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Section 2. Hazards identification

Symbol :



Other hazards which do not result in classification : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
Ethene, chloro-, homopolymer	≥30 - ≤60	9002-86-2
dibutyl adipate	≥10 - ≤30	105-99-7
Imidacloprid	≥10 - ≤20	138261-41-3
Flumethrin	≤5	69770-45-2
Oils, soybean, epoxidised	≤3	8013-07-8
stearic acid	≤3	57-11-4
titanium dioxide	<1	13463-67-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.

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Section 4. First aid measures

- Ingestion** : Toxic if swallowed.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Specific treatments** : No specific treatment.
Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
Not suitable : None known.
Specific hazards arising from the chemical : This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds
Hazchem code : 2Z
Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and material for containment and cleaning up

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Section 6. Accidental release measures

- Small spill** : Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Protective measures

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Ethene, chloro-, homopolymer	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 4 mg/m ³ 8 hours. Form: respirable dust TWA: 10 mg/m ³ 8 hours. Form: inhalable dust
Imidacloprid	Elanco OEL (ELANCO). TWA: 0.7 mg/m ³ 480 minutes.
stearic acid	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2020). [Stearates] WES-TWA: 10 mg/m ³ 8 hours. Safe Work Australia (Australia, 12/2019). [Stearates] TWA: 10 mg/m ³ 8 hours.
titanium dioxide	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2020). WES-TWA: 10 mg/m ³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 4 mg/m ³ 8 hours. Form: respirable TWA: 10 mg/m ³ 8 hours. Form: total inhalable Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m ³ 8 hours.

Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Section 8. Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Solid.

Colour : White. Black. Red.

Odour : Not available.

Odour threshold : Not available.

pH : 7

Melting point/freezing point : 140°C (284°F) [DIN EN ISO 3146]

Boiling point, initial boiling point, and boiling range : Not available.

Flash point : Not applicable.

Evaporation rate : Not available.

Flammability : Not available.

Lower and upper explosion limit/flammability limit : Not applicable.

Vapour pressure : Not applicable.

Relative vapour density : Not applicable.

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Section 9. Physical and chemical properties and safety characteristics

Relative density	: Not available.
Density	: 550 kg/m ³ [DIN ISO 697]
Solubility(ies)	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: 185°C (365°F)
Viscosity	: Not applicable.
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on likely routes of exposure

Inhalation	: No known significant effects or critical hazards.
Ingestion	: Toxic if swallowed.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: No specific data.
Eye contact	: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
dibutyl adipate	LD50 Oral	Rat	12900 mg/kg	-
Imidacloprid	LC50 Inhalation Dusts and mists	Rat	>5.323 mg/l	4 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Mouse - Male	130 mg/kg	-
Flumethrin	LD50 Oral	Rat	410 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	0.572 mg/l	4 hours
	LD50 Dermal	Rat	1436 mg/kg	-
Oils, soybean, epoxidised stearic acid	LD50 Oral	Rat	175 mg/kg	-
	LD50 Oral	Rat	40 g/kg	-
	LD50 Dermal	Rabbit	>5 g/kg	-
titanium dioxide	LD50 Oral	Rat	4600 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Oral	Rat	>10000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Oils, soybean, epoxidised stearic acid	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Human	-	72 hours 75 mg l	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Flumethrin	skin	Guinea pig	Not sensitizing

Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Chronic toxicity

Not available.

Carcinogenicity

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

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Section 11. Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Flumethrin	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Imidacloprid	Category 2	-	-
Flumethrin	Category 1	-	-

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Seresto® Collar	100.0	25083.8	N/A	N/A	9.7
dibutyl adipate	12900	N/A	N/A	N/A	N/A
Imidacloprid	100	N/A	N/A	N/A	N/A
Flumethrin	5	1436	N/A	N/A	0.572
Oils, soybean, epoxidised	40000	N/A	N/A	N/A	N/A
stearic acid	4600	N/A	N/A	N/A	N/A

Section 12. Ecological information

Ecotoxicity : This material is very toxic to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
dibutyl adipate	Acute LC50 3640 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 1 µg/l Fresh water	Crustaceans - Cypretta seurati	48 hours
	Acute IC50 389 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute LC50 1.09 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 10.16 µg/l Fresh water	Fish - Clarias gariepinus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 10 ppm Fresh water	Algae - Desmodesmus subspicatus	4 days
	Chronic NOEC 5.2 µg/l Marine water	Crustaceans - Penaeus monodon - Adult	21 days
Flumethrin	Chronic NOEC 71.8 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 4 µg/l Fresh water	Fish - Clarias gariepinus - Juvenile (Fledgling, Hatchling, Weanling)	28 days
titanium dioxide	EC50 0.0027 mg/l	Daphnia	48 hours
	IC50 0.59 mg/l	Algae	72 hours
titanium dioxide	Acute LC50 0.17 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex -	48 hours

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Section 12. Ecological information

	Acute LC50 >1000000 µg/l Marine water	Neonate Fish - Fundulus heteroclitus	96 hours
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Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Flumethrin	-	0 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Flumethrin	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, (2E)-	0.57	-	Low
Soybean oil, epoxidized	>6.2	-	High
stearic acid	8.23	-	High

Mobility in soil



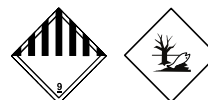
Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	New Zealand - Land - road/ railway	IMDG	IATA
UN number	UN3077	UN3077	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID, FLUMETHRIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID, FLUMETHRIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID, FLUMETHRIN)
Transport hazard class(es)	9 	9 	9 
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.

Product name : Seresto for kittens and cats
Seresto for dogs over 8 kg
Seresto for puppies and dogs less than or equal to 8 kg

NZ : ENGLISH

Version :0.07

Date of revision :11 October 2023

Date of previous issue :19 July 2023

10/12

Section 14. Transport information

Additional information

New Zealand

: **Hazchem code** 2Z

Remarks Land - road/railway: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IMDG

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

HSNO Approval Number : HSR100757

HSNO Group Standard : Veterinary Medicines (Limited Pack Size, Finished Dose)

HSNO Classification : ACUTE TOXICITY (oral) - Category 3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

Certified handler : not required

Tracking : not required

ACVM No. : A010750

Inventory list

New Zealand : Not determined.

Section 16. Other information

History

Date of issue/Date of revision : 10/11/2023

Date of previous issue : 7/19/2023

Version : 0.07

Key to abbreviations : ADG = Australian Dangerous Goods
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SGG = Segregation Group
UN = United Nations

References : Not available.

Product name : Seresto for kittens and cats
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Version : 0.07

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Date of previous issue : 19 July 2023

11/12

Section 16. Other information

✔ Indicates information that has changed from previously issued version.

[Notice to reader](#)

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. **THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE).** In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:

Elanco Animal Health

0011+1-877-352-6261

0011+1-800-428-4441

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