

SAFETY DATA SHEETS

This SDS packet was issued with item:

078929209

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

078852591 078852609 078852617 078852625 078929060 078929061 078929062 078929063 078929206 078929207

078929208 21142795 21142796 21142797 21142804 78929206 78929207 78929208



SAFETY DATA SHEET

1. Identification

Product identifier Parastar Plus for Dogs

Other means of identification

Item Code CA5332

Recommended use Insecticide

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Elanco Animal Health
2500 Innovation Way
Greenfield, IN 46140
US

Phone: 1-877-Elanco1 (1-877-352-6261)

Emergency Telephone: Elanco Product Technical Support / Human or Animal Exposure Reporting:
1-888-545-5973

Email: elanco_sds@elanco.com

Transportation Emergency Telephone: CHEMTREC: 1-800-424-9300
(Outside U.S. 1-703-527-3887)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4
Serious eye damage/eye irritation Category 2
Specific target organ toxicity, repeated exposure Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement

H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure.

Precautionary statement

Prevention

P260 Do not breathe mist or vapor.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage Not available.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Fipronil		120068-37-3	9.8
Cyphenothrin		39515-40-7	5.2

Composition comments Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	May be harmful in contact with skin. Harmful if inhaled. Causes serious eye irritation. Prolonged or repeated exposure may cause: Central nervous system effects.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	NOT FOR HUMAN USE! If you feel unwell, seek medical advice (show the label where possible). 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.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. 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	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
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	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	In case of spills, beware of slippery floors and surfaces. Should not be released into the environment. Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Do not refrigerate. Store in a well-ventilated place.

8. Exposure controls/personal protection

Biological limit values	No biological exposure limits noted for the ingredient(s).
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.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Chemical-resistant gloves and impermeable body covering to minimize skin contact.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor.
Thermal hazards	Not available.
General hygiene considerations	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	
Physical state	Liquid.
Form	Liquid.
Color	Colourless to light yellow.
Odor	Faint. Pleasant.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 199.9 °F (> 93.3 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.0000009 mm Hg (25 °C) (Cyphenothrin)
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	0.01 mg/l (25 °C) (Cyphenothrin) 2.4 mg/l (25 °C) (Fipronil)
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.63 g/ml (20 °C) (Fipronil)
Explosive properties	Not explosive.
Oxidizing properties	No oxidizing properties.

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	Avoid exposure to high temperatures or direct sunlight. Do not refrigerate. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on toxicological effects

Acute toxicity May be harmful if swallowed. May be harmful in contact with skin. Harmful if inhaled.

Product	Species	Test Results
Parastar Plus for Dogs		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg (similar product)
Oral		
LD50	Rat	2722 mg/kg (similar product)
Components	Species	Test Results
Cyphenothrin (CAS 39515-40-7)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg
Inhalation		
LC50	Rat	1.85 mg/l, 4 hours
Oral		
LD50	Rat	318 mg/kg
Fipronil (CAS 120068-37-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	354 mg/kg
Inhalation		
LC50	Rat	0.39 mg/l, 4 hours
Oral		
LD50	Rat	97 mg/kg
Skin corrosion/irritation	Rabbit: Slight irritation. (Fipronil) Rabbit: No irritation. (Cyphenothrin) (similar substance) Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Causes eye irritation. (similar substance)	

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer. (Cyphenothrin)
Based on available data, the classification criteria are not met.

Skin sensitization Guinea pig: Not a skin sensitizer. (similar substance) (Fipronil) (Cyphenothrin)
Based on available data, the classification criteria are not met.

Germ cell mutagenicity Result in genetic toxicity assays (in vitro and in vivo): Negative (Fipronil) (Cyphenothrin)
Based on available data, the classification criteria are not met.

Carcinogenicity Not listed by IARC, NTP, ACGIH or OSHA.
No effects identified in animal studies. (Cyphenothrin)
In carcinogenicity studies, no tumors in mice observed, thyroid tumors reported in rat. These results are thought to be a rat-specific effect that is not relevant for humans. (Fipronil)

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. (Fipronil)
No effects identified in animal studies. (Cyphenothrin)
Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure No significant target organ toxicity reported. (Active ingredient(s))
Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure May cause damage to organs (central nervous system) through prolonged or repeated exposure. A chronic feeding study on fipronil in rats produced seizures, including seizures resulting in death, decreased body weight gain, decreased food consumption, decreased hematology measures, alterations in clinical chemistry, alterations in thyroid hormones, alterations in urine chemistry, changes on gross necropsy, increase in liver and thyroid weights, and kidney effects.

Aspiration hazard Not an aspiration hazard.

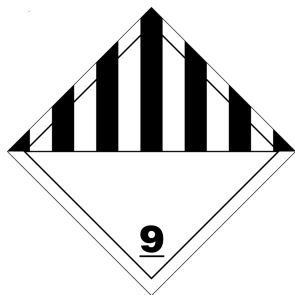
12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Product			Species	Test Results
Parastar Plus for Dogs				
Aquatic				
Fish	LC50		Fish	0.7517 mg/l, 96 hours
Components			Species	Test Results
Cyphenothrin (CAS 39515-40-7)				
Aquatic				
Algae	IC50		Algae	> 0.014 mg/l, 72 hours
Crustacea	EC50		Daphnia	0.0004 mg/l, 48 hours
			Water flea (Daphnia magna)	0.0012 mg/l, 48 hours
Fish	LC50		Fish	0.0003 mg/l, 96 hours
			Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.0004 mg/l, 96 hours
Fipronil (CAS 120068-37-3)				
	EC50		Midge (Chironomus dilutus)	0.0325 µg/l, 96 hours
	NOEC		Midge (Chironomus riparius)	0.12 µg/l, 28 days
			Scenedesmus subspicatus (Desmodesmus subspicatus (Chodat))	40 µg/l
Aquatic				
Crustacea	EC50		Water flea (Daphnia magna)	190 µg/l, 48 hours
				12.9 µg/l, 48 hours
	LC50		Opossum shrimp (Americamysis bahia)	0.14 µg/l, 96 hours
		NOEC		Opossum shrimp (Americamysis bahia)

Components		Species	Test Results
Fish	LC50		0.007 µg/l, 28 days
		Water flea (Daphnia magna)	9.8 µg/l, 21 days
		Bluegill (Lepomis macrochirus)	85.2 µg/l, 96 hours
		Carp (Cyprinus carpio)	430 µg/l, 96 hours
	NOEC	Channel catfish (Ictalurus punctatus)	560 µg/l, 96 hours
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	248 µg/l, 96 hours
		Sheepshead minnow (Cyprinodon variegatus)	130 µg/l, 96 hours
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	15 µg/l, 90 days
	Sheepshead minnow (Cyprinodon variegatus)	2.9 µg/l, 35 days	
Persistence and degradability		Fipronil biodegrades slowly in the environment and is not expected to bioaccumulate.	
Bioaccumulative potential		No data available.	
Partition coefficient n-octanol / water (log Kow)			
Fipronil		4.01	
Mobility in soil		No data available.	
Other adverse effects		Not available.	
13. Disposal considerations			
Disposal instructions		Dispose of contents/container in accordance with local/regional/national/international regulations.	
14. Transport information			
General information		Effective January 1, 2015 by Special Provision, UN3077 and UN3082 when packaged in inner packages of 5L / 5 KG or less are not subject to the dangerous goods regulations.	
DOT			
Not regulated as dangerous goods.			
IATA			
UN number		UN3082	
UN proper shipping name		Environmentally hazardous substance, liquid, n.o.s. (Fipronil)	
Transport hazard class(es)			
Class		9	
Subsidiary risk		-	
Packing group		III	
Environmental hazards		Yes	
ERG Code		9L	
Special precautions for user		Not available.	
Other information			
Passenger and cargo aircraft		Allowed with restrictions.	
Cargo aircraft only		Allowed with restrictions.	
IMDG			
UN number		UN3082	
UN proper shipping name		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL)	
Transport hazard class(es)			
Class		9	
Subsidiary risk		-	
Packing group		III	
Environmental hazards			
Marine pollutant		Yes	
EmS		F-A, S-F	
Special precautions for user		Not available.	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		Not established.	

IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
One or more components are not listed on TSCA.

Toxic Substances Control Act (TSCA)

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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.

US state regulations

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)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	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 07-13-2017

Revision date 02-13-2019

Version # 03

Disclaimer 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:

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