## **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 078929207

# 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 078929208 078929209 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
<b>Recommended restrictions</b>	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 H332 H372	Causes serious eye irritation. Harmful if inhaled. Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Precautionary statement	
Prevention	
P260 P264 P280	Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	
P304 + P340 P305 + P351 +	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P338 P312	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.
Storage	Not available.
Disposal	

P501 Hazard(s) not otherwise classified (HNOC) 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
<b>Composition comments</b> Remaining components of this product are non-hazardous and/or are present at concentration		nt at concentrations	

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).
Unquitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire

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.
Environmental precautions	Never return spills to original containers for re-use. Avoid discharge into drains, water courses or onto the ground.

## Handling and storage

	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/perso	onal 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		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 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 considerations 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.
рН	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 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	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.

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	itation 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		

Respiratory or skin sensitization	n
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 Regulate	ed Substances (29 CFR 1910.1001-1052)
Not regulated.	
US. National Toxicology Pro	ogram (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.

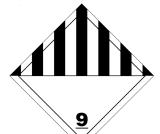
## 12. Ecological information

Very toxic to aquatic life with long lasting effects.

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Product		Species	Test Results
Parastar Plus for Dogs			
Aquatic			
Fish	LC50	Fish	0.7517 mg/l, 96 hours
Components		Species	Test Results
Cyphenothrin (CAS 395	15-40-7)		
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	7-3)		
	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)	0.06 μg/l, 28 days
		, ,	

Components		Species	Test Results
			0.007 µg/l, 28 days
		Water flea (Daphnia magna)	9.8 μg/l, 21 days
Fish	LC50	Bluegill (Lepomis macrochirus)	85.2 μg/l, 96 hours
		Carp (Cyprinus carpio)	430 µg/l, 96 hours
		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
	NOEC	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 biode	grades slowly in the environment and is no	ot expected to bioaccumulate.
Bioaccumulative potential	No data availa		
Partition coefficient n-octan			
Fipronil		4.01	
Mobility in soil	No data availa	able.	
Other adverse effects	Not available.		
13. Disposal consideration	ıs		
Disposal instructions	Dispose of co	ntents/container in accordance with local/r	egional/national/international regulations.
14. Transport information			
General information		ary 1, 2015 by Special Provision, UN3077 L / 5 KG or less are not subject to the dan	
DOT			
Not regulated as dangerous g	oods.		
ΙΑΤΑ			
UN number	UN3082		
UN proper shipping name Transport hazard class(es)	Environmenta	lly hazardous substance, liquid, n.o.s. (Fip	oronil)
Class	9		
Subsidiary risk Packing group	-		
Environmental hazards	Yes		
ERG Code	9L		
Special precautions for user Other information	r Not available.		
Passenger and cargo aircraft	Allowed with r	estrictions.	
Cargo aircraft only IMDG	Allowed with r	estrictions.	
UN number	UN3082		
UN proper shipping name Transport hazard class(es)	ENVIRONME	NTALLY HAZARDOUS SUBSTANCE, LIC	QUID, N.O.S. (FIPRONIL)
Class	9		
Subsidiary risk	-		
Packing group	111		
Environmental hazards			
Marine pollutant	Yes		
EmS Special pressutions for use	F-A, S-F		
Special precautions for user Transport in bulk according to	Not available. Not establishe	ed.	
Annex II of MARPOL 73/78 and the IBC Code			

#### 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: Elanco Animal Health

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