



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Parastar for Dogs

**Other means of identification**  
**Item Code** CA5330

**Recommended use** This product is an insecticide intended for use on dogs to kill fleas, ticks, mosquitoes, and chewing lice.

**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, oral Category 4  
Acute toxicity, inhalation Category 4  
Specific target organ toxicity, repeated exposure Category 1 (central nervous system)

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger

**Hazard statement**

H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H372 Causes damage to organs through prolonged or repeated exposure.

**Precautionary statement**

**Prevention**

P260 Do not breathe mist or vapor.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.

**Response**

P301 + P312 If swallowed: Call a poison center/doctor if you feel unwell.  
P330 Rinse mouth.  
P304 + P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

**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

<b>Chemical name</b>	<b>Common name and synonyms</b>	<b>CAS number</b>	<b>%</b>
Fipronil		120068-37-3	9.7

**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** Harmful if swallowed. Harmful if inhaled. 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 (CO<sub>2</sub>).

**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

<b>Precautions for safe handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	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

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	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.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Chemical-resistant gloves and impermeable body covering to minimize skin contact.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment. Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor.
<b>Thermal hazards</b>	Not available.
<b>General hygiene considerations</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.

## 9. Physical and chemical properties

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Clear.
<b>Odor</b>	Faint. Pleasant.
<b>Odor 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>	> 199.9 °F (> 93.3 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	2.4 mg/l (25 °C) (Fipronil)
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.

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

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

## 11. Toxicological information

### Information on toxicological effects

**Acute toxicity** Harmful if inhaled. Harmful if swallowed.

Components	Species	Test Results
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Fipronil (CAS 120068-37-3)

#### Acute

##### **Dermal**

LD50	Rabbit	354 mg/kg
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##### **Inhalation**

LC50	Rat	0.39 mg/l, 4 hours
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##### **Oral**

LD50	Rat	97 mg/kg
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**Skin corrosion/irritation** Rabbit: Slight irritation. (Fipronil)  
Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Rabbit: Mild eye irritation. (Fipronil)  
Based on available data, the classification criteria are not met.

### Respiratory or skin sensitization

**Respiratory sensitization** Due to lack of data the classification is not possible.

**Skin sensitization** Did not cause sensitization on laboratory animals. (Fipronil)  
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)  
Based on available data, the classification criteria are not met.

**Carcinogenicity** Not listed by IARC, NTP, ACGIH or OSHA.  
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)  
Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure** Due to lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure** Causes damage to organs 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.

Components		Species	Test Results
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
<b>Aquatic</b>			
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 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 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** -

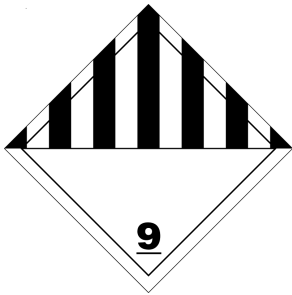
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	9L
<b>Special precautions for user</b>	Not available.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

**IMDG**

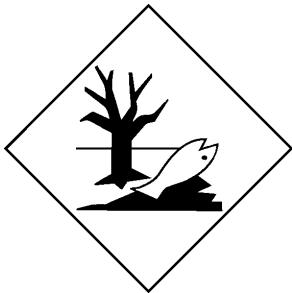
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-F
<b>Special precautions for user</b>	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)**

<b>Classified hazard categories</b>	Acute toxicity (any route of exposure) Specific target organ toxicity (single or repeated exposure)
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**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**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
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** 07-14-2017**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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