# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 078929213

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

021142571 021142572 021142573 021142574 078846907 078846915 078846923 078846931 078929064 078929066 078929067 078929068 078929210 078929211 078929212

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078846949



# SAFETY DATA SHEET

# 1. Identification

Product identifier Other means of identification Recommended use Recommended restrictions	PARASTAR None. Insecticide None known.
Manufacturer/Importer/Supplier/ Manufacturer	
Company Name Address	Novartis Animal Health 3200 Northline Avenue, Suite 300 Greensboro, NC 27408
Telephone SDS E-mail SDS telephone Emergency Telephone Numbers	1-336-387-1000 lilly_msds@lilly.com 1-877-Elanco1 (1-877-352-6261) Elanco Product Technical Support / Human or Animal Exposure Reporting: 1-888-545-5973 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
	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	
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	

Pre	evention	
	P260	Do not breathe mist or vapor.
	P264	Wash thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Res	sponse	
	P301 + P312	If swallowed: Call a poison center/doctor if you feel unwell.
	P305 + P351 +	
	P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
		and easy to do. Continue rinsing.
	P304 + P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
	P312	Call a poison center/doctor if you feel unwell.

Material name: PARASTAR

P330 P337 + P313	Rinse mouth. 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** 

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Fipronil		120068-37-3	9.7
Other components below report	table levels		90.3
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a partificial respiration if needed. Call a POISON CE		
Skin contact	Wash off with soap and water. Get medical atten	tion if irritation develops a	nd persists.
Eye contact	Rinse immediately with plenty of water, also under attention if irritation develops and persists.	er the eyelids, for at least	15 minutes. Get me
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lun Get medical advice/attention if you feel unwell.		
Most important symptoms/effects, acute and delayed	Harmful if swallowed. Harmful if inhaled. Eye irrit Prolonged exposure may cause chronic effects.	ation. Dizziness. Nausea,	vomiting. Headach
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 personnel are aware of the material(s) involved, this safety data sheet to the doctor in attendance	and take precautions to pr	
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 w	vill spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be for	ormed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prote	ective clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so v	vithout risk.	
Specific methods	Use standard firefighting procedures and conside	er the hazards of other inve	olved materials.
C Assidental valasse mas			

## 6. Accidental release measures

Personal precautions,<br/>protective equipment and<br/>emergency proceduresKeep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear<br/>appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor.<br/>Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be<br/>contained. For personal protection, see section 8 of the SDS.

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. Dike the spilled material, where this is possible. 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. For waste disposal, see section 13 of the SDS.	
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. Do not taste or swallow. When using, do not eat, drink or smoke. 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. Store away from incompatible materials (see Section 10 of the SDS).	
8. Exposure controls/pers	onal protection	
Occupational exposure limits	No exposure limits noted for ingredient(s).	
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	Keep away from food and drink. 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 p	properties	
Appearance	•	
Physical state	Liquid.	
Form	Liquid.	
Color	Clear.	

Form	Liquia.	
Color	Clear.	
Odor	Odorless.	
Odor threshold	No data available.	
рН	No data available.	
Melting point/freezing point	No data available.	
Initial boiling point and boiling	No data available.	
range		
Flash point	No data available.	
Evaporation rate	No data available.	
Flammability (solid, gas)	This product is a nonflammable aqueous solution.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	No data available.	

Flammability limit - upper	No data available.
(%)	
Explosive limit - lower (%)	No data available.
Explosive limit - upper (%)	No data available.
Vapor pressure	0.00000003 mm Hg (25 °C)
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	
Solubility (water)	2.4 mg/l (25 °C) (Fipronil)
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Other information	
Density	1.63 g/ml (20 °C) (Fipronil)
Explosive properties	Not explosive
Oxidizing properties	No oxidizing properties.
Percent volatile	No data available.
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	No dangerous reaction known under conditions of normal use.

incompatible materials.

Strong oxidizing agents.

**Species** 

Rat

Mouse

Rat

No hazardous decomposition products are known.

Harmful if inhaled. Harmful if swallowed.

New Zealand white rabbit

Albino Sprague-Dawley rat

Rabbit: Slight irritation. (Fipronil)

Causes eye irritation.

Not a skin sensitizer.

Avoid exposure to high temperatures or direct sunlight. Do not refrigerate. Contact with

**Test Results** 

354 mg/kg

98 mg/kg

92 mg/kg

> 2000 mg/kg

< 0.42 mg/l, 4 Hours

Material name: PARASTAR

Skin sensitization

Respiratory or skin sensitization Respiratory sensitization

reactions

products

Acute toxicity Components

Conditions to avoid

Incompatible materials

Hazardous decomposition

Fipronil (CAS 120068-37-3) <u>Acute</u> Dermal LD50

> Inhalation LC50

Oral LD50

Skin corrosion/irritation

Serious eye damage/eye

irritation

11. Toxicological information Information on toxicological effects

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Did not cause sensitization on laboratory animals. (Fipronil)

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

Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Result in genetic toxicity assays (in vitro and in vivo): Negative (Fipronil)	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
OSHA Specifically Regulate Not listed.	d Substances (29 CFR 1910.1001-1050)	
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	Not classified.	
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	1	

# Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Fipronil (CAS 120068-37-3)			
Other	NOEC	Duck	1000 ppm (Avian reproduction)
		Quail	10 ppm (Avian reproduction)
Aquatic			
Algae	EC50	Blue-green algae (Spirulina platensis)	> 0.17 mg/l, 96 hours
		Green algae (Chlamydomonas variabilis)	0.14 mg/l, 96 hours
Crustacea	EC50	Daphnia	0.19 mg/l, 48 hours
		Oyster (Crassostrea cucullata)	0.77 mg/l, 96 hours
	LC50	Shrimp (Mysidopsis bigelowi)	0.14 μg/l, 96 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.083 mg/l, 96 hours
		Rainbow Trout	0.246 mg/l, 96 hours
Persistence and degradability	Fipronil biod	egrades slowly in the environment and is no	t expected to bioaccumulate.
ioaccumulative potential	No data ava	lable.	
Partition coefficient n-octa	nol / water (log	Kow)	
PARASTAR		4.01	
Fipronil Iobility in soil	No data ava	4 Jable	
Other adverse effects	No data available. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
3. Disposal consideration	ons		
Disposal instructions		this material to drain into sewers/water supp with local/regional/national/international regu	
Vaste codes	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
4. Transport information	ı		
eneral 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.		
от			
Not regulated as dangerous	goods.		
ATA			
UN number	UN3082	ally bezerdeus substance liquid a s. (Fis	ropil)
UN proper shipping name	Environment	ally hazardous substance, liquid, n.o.s. (Fip	

Material name: PARASTAR

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Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	11
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
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	
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
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.

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 1910.1001-1050) Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categor	ine

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

### 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

Not regulated.

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

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

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)*
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	05-29-2015
Version #	01
Lilly Lab Code	Health: 1 Fire: 1 Reactivity: 0
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 MATERIAL 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
Revision Information	Product and Company Identification: Alternate Trade Names GHS: Classification