

1. IDENTIFICATION

Trade Name: Fipronil (9.7%) Only Squeeze On for Dogs
Product identifier: see EPA registration number
Synonym: JK8
Brand Names: ADvanSpot, DogMD, FiproSpot, Meridian, Sergeant's, Sentry
EPA Registration #: 2517-136 70585-12 86230-2

Manufacturer: The Perrigo Company
 515 Eastern Avenue
 Allegan, MI 49010 USA
 Tel: 269-673-8451
 Email SDSRequest@Perrigo.com
Manufacturing Site: Sergeant's Pet Care Products, Inc.
 10077 South 134th Street
 Omaha, NE 68138 USA

Emergency phone numbers

First aid or Spill: 888-464-2986 (U.S. calls)
 +1 760-476-3962 Code 333304 (International calls)
 Pet emergency/
 Adverse event report: 1-800-781-4738

Recommended use: Flea and tick treatment for dogs
Restrictions on use: Use only as directed.

2. HAZARD(S) IDENTIFICATION

Classification:

Physical	Health
Flammable Liquid Category 4	Acute Oral Toxicity Category 4 Acute Inhalation Toxicity Category 4 Specific Target Organ Toxicity Repeated Exposure Category 1 (nervous system, thyroid)

Label Elements:

Danger!



Hazard statement(s)

Combustible Liquid.
 Harmful if swallowed or inhaled.
 Causes damage to the nervous system and thyroid through prolonged or repeated exposure.
Precautionary statement(s)
 Keep away from flames and hot surfaces. No smoking.
 Do not breathe vapors or mists.
 Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.

Precautionary statement(s)

Use only outdoors or in a well-ventilated area.
 Wear protective gloves.
 If SWALLOWED: Call a poison center or physician if you feel unwell. Rinse mouth.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or physician if you feel unwell.
 In case of fire: Use water spray, carbon dioxide or alcohol-resistant foam to extinguish.
 Store in a well-ventilated place. Keep cool.
 Dispose in accordance with local and national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Fipronil	120068-37-3	9.7%
Diethylene Glycol Monoethyl Ether (DEGEE)	111-90-0	90.3%

4. FIRST-AID MEASURES

Inhalation: Remove person to fresh air. If irritation occurs or symptoms develop, get medical attention.

Skin contact: Wash hands with soap and water after handling. If irritation develops and persists or symptoms of exposure develop, get medical attention.

Eye contact: Immediately flush eyes with water while lifting the upper and lower lids. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention.

Most important symptoms/effects, acute and delayed: May cause eye, skin and respiratory irritation.

Ingestion, skin absorption or inhalation may cause sweating, nausea, vomiting, headache, abdominal pain, dizziness, agitation, weakness, and tonic-clonic seizures. Prolonged exposure may damage the nervous system and thyroid.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is recommended for ingestion.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use water spray or fog, CO₂, dry chemical or alcohol-resistant foam.

Specific hazards arising from the chemical: Combustible liquid and vapor. Vapors may be explosive in confined areas. Vapors will collect in low areas.

Special protective equipment and precautions for fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing and equipment as described in Section 8. Eliminate all ignition sources and ventilate the area.

Environmental Precautions: This product is very toxic to aquatic life. Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

Methods and materials for containment and cleaning up: Contain and collect with an inert absorbent material. Place in appropriate container for disposal. Clean area thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke when handling this material. Avoid breathing vapors or mists.

Use only with adequate ventilation. Remove contaminated clothing and launder before re-use. Keep product away from heat and open flames.

Conditions for safe storage, including any incompatibilities: Store as indicated on product packaging.

PESTICIDE STORAGE: Do not remove tube from the pack until ready to use. Store in a cool (below 77°F/25°C) dry place inaccessible to children and pets. Do not refrigerate. Protect from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Fipronil	Perrigo OEB4 (1 ug/m3) TWA
Diethylene Glycol Monoethyl Ether	25 ppm TWA AIHA WEEL

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to minimize exposures levels.

Individual protection measures:

Respiratory protection: None needed under normal use conditions. If exposure limits are exceeded, a NIOSH approved pesticide respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

Skin protection: Impervious gloves recommended for bulk processing.

Eye protection: Chemical safety goggles recommended for bulk processing.

Other: None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Pale yellow to amber liquid

Odor: Faint pleasant

Odor threshold: Not determined	pH: Not determined
Melting point/freezing point: Not determined	Boiling Point: 196°C / 385°F
Flash point: >90°C / 194°F	Evaporation rate: Not determined
Flammability (solid, gas): Not applicable	VOC: 0% (DEGEE is LVP-VOC)
Flammable limits: LEL: 1.2% (DEGEE)	UEL: 23.5% (DEGEE)
Vapor pressure: 0.09 mmHg @20°C (DEGEE)	Vapor density: >1 (air=1)
Relative density: 1.00-1.04	Solubility(ies): Soluble in water
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not available
Decomposition temperature: Not available	Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable.

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: Avoid oxidizing agents, strong acids and strong bases.

Hazardous decomposition products: Thermal decomposition may yield carbon and sulfur oxides and chlorine and fluoride compounds.

11. TOXICOLOGICAL INFORMATION

Acute effects of exposure:

Inhalation: Inhalation of mists or aerosols may cause effects similar to ingestion.

Ingestion: Swallowing may cause may cause sweating, nausea, vomiting, headache, abdominal pain, dizziness, agitation, weakness, and tonic-clonic seizures.

Skin contact: May cause irritation and effects similar to ingestion. Fipronil is absorbed through the skin.

Eye contact: Contact may cause mild irritation with redness and tearing.

Chronic Effects: Prolonged or repeated exposure may cause neurotoxicity and effects on the thyroid and liver.

Sensitization: Components are not skin sensitizers. Fipronil was not sensitizing when tested in guinea pigs.

Germ Cell Mutagenicity: Components are not germ cell mutagens. Fipronil was not genotoxic either in vitro or in vivo assays conducted to investigate gene mutations, DNA damage, and chromosomal aberrations. It was negative in Salmonella (Ames test), Chinese hamster V79 cells (HGPRT Assay), human lymphocytes (in vitro cytogenetics assay), or mouse micronuclei (bone marrow micronucleus assay).

Reproductive Toxicity: Ingredients are not reproductive toxins. The developmental toxicity NOELs in the rat and rabbit were 20 mg/kg/day (highest dose tested; HDT) and 1 mg/kg/day (HDT), respectively. Maternal toxicity was observed in the rat at the HDT as evidenced by decreased body weight gain and food efficiency. In the rabbit, the maternal toxicity NOAEL was less than 0.1 mg/kg/day, based on reduced body weight gain and food efficiency at all dose levels tested.

Carcinogenicity: None of the components are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA. Fipronil cause only species-specific tumours in studies with rats and mice.

Acute Toxicity Values: Acute toxicity estimate (ATE) calculated: Oral 870 mg/kg; Dermal 2703 mg/kg;

Inhalation: 4 mg/L/4 hr

Fipronil: LD50 oral rat 97 mg/kg; LD50 dermal rabbit 354 mg/kg; LC50 rat 0.39-0.682 mg/L/4 hr

Diethylene Glycol Monoethyl Ether: LD50 oral rat 6031 mg/kg; LD50 dermal rabbit 9143 mg/kg

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life with long lasting effects. Avoid release to the environment.

Ecotoxicity values: Fipronil: LC50 lepomis macrochirus 0.085 mg/L/96 hr; NOEC *CyprinodonVariegatus* 0.0029 mg/L/35 d. EC50 *Chironomus dilutus* 0.0000325 mg/L/96 hr. NOEC *Mysidopsis bahia* 0.0000077 mg/L/28 d.

Classified as Acute Aquatic Toxicity Category 1 (M=1000), Chronic Aquatic Toxicity Category 1 (M=10000)

Persistence and degradability: Fipronil is not readily biodegradable (47% in 28 days OECD 301B).

Bioaccumulative potential: BCF value for lepomis macrochirus of approx 321 suggests bioconcentration of fipronil in aquatic organisms is low.

Mobility in soil: No data is available.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations. **CONTAINER DISPOSAL: If empty:** Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated in non-bulk packages			
TDG		Not Regulated			
IMDG	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (Fipronil)	9	III	Marine Pollutant
IATA	UN3082	Environmentally Hazardous Substance, liquid, n.o.s. (Fipronil)	9	III	Yes

Note: This product is classified as a Marine Pollutant (Environmentally Hazardous Substance) in accordance with the IMDG Code and the UN Model Regulations. However, it is packaged in either single packages or inner packagings in combination packages containing net quantities of less than 5 kg/5 L (IMDG Code 2.10.2.7; ICAO Special Instruction A197). Shipment may be regulated if contents are removed from inner packaging and combined into containers exceeding 5 L or 5 kg.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known.

15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Labeling:

HAZARDS TO HUMANS. CAUTION. KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Safety, health, and environmental regulations specific for the product in question.

CERCLA: This product is not subject to release reporting. Many states have more stringent release reporting requirements. Report spills as required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health, Chronic Health, Fire Hazard

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:
Diethylene glycol monoethyl ether (glycol ether) 90.3%

EPA TSCA Inventory: This product is a pesticide and not subject to TSCA.

CANADA:

Canadian CEPA: This product is a pest control product and not subject to CEPA regulations.

16. OTHER INFORMATION

NFPA Rating: Health = 2 Flammability = 2 Instability = 0
HMIS Rating: Health = 2 Flammability = 2 Physical Hazard = 0

SDS Revision History: New SDS

Date of Preparation: May 14, 2016

Disclaimer: This SDS has been prepared for occupational exposure. Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).