

**1. Product and Company Identification**

**Product Name** Sergeant's Dual Action Flea & Tick Collar for Dogs  
**Synonym(s)** EPA Registration # 2517-61

**Product use** Flea and tick collar for dogs over 12 weeks of age  
**Manufacturer** Sergeant's Pet Care Products, Inc.  
 2625 South 158th Plaza  
 Omaha, NE 68130-1770 US  
 Phone: 1-800-224-7387  
 Fax: 1-402-938-7099  
 Emergency Phone: 1-800-781-4738

**CHEMTREC** 1-800-424-9300

**2. Hazards Identification**

**Emergency overview** CAUTION  
 HARMFUL IF SWALLOWED  
 EYE IRRITANT

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion  
**Eyes** Causes moderate irritation to the eyes.  
**Skin** May cause irritation.  
**Inhalation** May cause respiratory tract irritation.  
**Ingestion** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Target organs** Eyes. Skin. Blood. Kidney. Liver. Central nervous system.  
**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.  
**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
**Potential environmental effects** See Section 12

**3. Composition / Information on Ingredients**

Ingredient(s)	CAS #	Percent
Propoxur	114-26-1	2.5 – 10
N-Octyl bicycloheptene dicarboximide	113-48-4	2.5 – 10
D-Phenothrin	26002-80-2	2.5 – 10

**4. First Aid Measures**

**First aid procedures**

**Eye contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Notes to physician** Dust release by this collar is a cholinesterase inhibitor. Atropine is antidotal.

**General advice**

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. Keep out of reach of children.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	Not flammable by OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not applicable
<b>Sensitivity to static discharge</b>	Not applicable

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Prevent entry into waterways, sewers, or confined areas.
<b>Methods for containment</b>	Place in closed labeled container.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above and use appropriate personal protective equipment (PPE). Use broom to collect material without raising dust. Place in suitable labeled container for disposal. Rinse area with water. If unsure of clean-up methods, contact emergency services and/or supplier for advice.

## 7. Handling and Storage

<b>Handling</b>	Use good industrial hygiene practices in handling this material. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.
<b>Storage</b>	Store in a cool, dry area that is inaccessible to children or pets. Protect from freezing.

## 8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	Exposure Limits
Propoxur	<b>ACGIH-TLV</b> TWA: 0.5 mg/m <sup>3</sup> <b>OSHA-PEL</b> Not established
N-Octyl bicycloheptene dicarboximide	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
D-Phenothrin	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established

<b>Engineering controls</b>	General ventilation normally adequate.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear safety glasses with side shields.
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	PVC Strip
<b>Color</b>	Varies
<b>Form</b>	Collar
<b>Odor</b>	Baby powder
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Solid
<b>pH</b>	Not Applicable
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	Not Applicable
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not Applicable
<b>Flammability limits in air, upper, % by volume</b>	Not Applicable
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	Not available
<b>Relative density</b>	1.15 g/in
<b>Octanol/water coefficient</b>	Not available

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## 10. Stability and Reactivity

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<b>Reactivity</b>	None known.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

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## 11. Toxicological Information

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### Component analysis - LC<sub>50</sub>

Ingredient(s)	LC <sub>50</sub>
Propoxur	0.498 mg/l/4h rat
N-Octyl bicycloheptene dicarboximide	Not available
D-Phenothrin	Not available

**Component analysis - Oral LD<sub>50</sub>**

Ingredient(s)	LD <sub>50</sub>
Propoxur	70 mg/kg rat
N-Octyl bicycloheptene dicarboximide	2800 mg/kg rat
D-Phenothrin	1000 mg/kg rat

**Effects of acute exposure**

<b>Eye</b>	Causes moderate eye irritation.
<b>Skin</b>	May cause irritation.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Sensitization**

Non-hazardous by OSHA criteria.

**Chronic effects**

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Carcinogenicity**

See below.

**ACGIH - Threshold Limit Values - Carcinogens**

Propoxur 114-26-1 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

**U.S. - California - Proposition 65 - Carcinogens List**

Propoxur 114-26-1 carcinogen, initial date 8/11/06

**Mutagenicity**

Non-hazardous by OSHA criteria.

**Reproductive effects**

Contains a potential reproductive toxin.

**Teratogenicity**

Contains a potential teratogen.

**Name of Toxicologically Synergistic Products**

Not available

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## 12. Ecological Information

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**Ecotoxicity**

See below

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**Propoxur 114-26-1 96 Hr EC50 *Desmodesmus subspicatus*: 13.4 mg/L; 96 Hr EC50 *Pseudokirchneriella subcapitata*: 2.8484 mg/L [static]**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**Propoxur 114-26-1 96 Hr LC50 *Pimephales promelas*: 7.4-10.5 mg/L [flow-through]; 96 Hr LC50 *Pimephales promelas*: 25 mg/L [static]; 96 Hr LC50 *Oncorhynchus mykiss*: 13.6 mg/L; 96 Hr LC50 *Oncorhynchus mykiss*: 2.2-6.9 mg/L [static]; 96 Hr LC50 *Cyprinus carpio*: 3.3 mg/L; 96 Hr LC50 *Cyprinus carpio*: 5.09-10.6 mg/L [static]; 96 Hr LC50 *Lepomis macrochirus*: 4.1-9 mg/L [static]; 96 Hr LC50 *Poecilia reticulata*: 1.3-1.5 mg/L; 96 Hr LC50 *Poecilia reticulata*: 1.41-2.15 mg/L [static]**Ecotoxicity - Water Flea - Acute Toxicity Data**Propoxur 114-26-1 48 Hr EC50 *Daphnia magna*: 0.15 mg/L**Persistence / degradability**

Not available

**Bioaccumulation / accumulation**

Not available

**Mobility in environmental media**

Not available

**Environmental effects**

Not available

**Aquatic toxicity**

Not available

**Partition coefficient**

Not available

**Chemical fate information**

Not available

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## 13. Disposal Considerations

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**Disposal instructions**

Non-refillable container. Do not reuse or refill the container. Dispose of expired collar in trash or call your local waste agency for disposal instructions.

**Waste from residues / unused products**

Not available

**Contaminated packaging**

Not available

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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

### IMDG (Marine Transport)

#### Basic shipping requirements:

<b>Proper shipping name</b>	Environmentally Hazardous Substance, Solid, n.o.s. (PROPOXUR)
<b>Hazard class</b>	9
<b>UN number</b>	3077
<b>Packing group</b>	III

#### Additional information:

<b>Special provisions</b>	179, 274, 335, 909
<b>Limited quantity</b>	5kg
<b>Excepted quantity code</b>	E1
<b>Stowage location</b>	Cat A



### IATA/ICAO (Air)

#### Basic shipping requirements:

<b>Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s. (PROPOXUR)
<b>Hazard class</b>	9
<b>UN number</b>	3077
<b>Packing group</b>	III

#### Additional information:

<b>Special provisions</b>	A97, A158, A179
<b>Excepted quantity code</b>	E1
<b>Limited quantity</b>	30kg



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## 15. Regulatory Information

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### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

### US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Propoxur	114-26-1	100 Lb final RQ; 45.4 kg final RQ
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#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

D-Phenothrin	26002-80-2	1.0 % de minimis concentration
Propoxur	114-26-1	1.0 % de minimis concentration

### CERCLA (Superfund) reportable quantity

Propoxur: 100.0000

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

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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<b>Section 302 extremely hazardous substance</b>	No
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<b>Section 311 hazardous chemical</b>	No
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<b>Clean Air Act (CAA)</b>	Not available
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<b>Clean Water Act (CWA)</b>	Not available
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**State regulations**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Propoxur 114-26-1 Present

**U.S. - California - Proposition 65 - Carcinogens List**

Propoxur 114-26-1 carcinogen, initial date 8/11/06

**U.S. - Illinois - Toxic Air Contaminants**

Propoxur 114-26-1 Present

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Propoxur 114-26-1 100 Lb final RQ; 45.4 kg final RQ

**U.S. - Massachusetts - Right To Know List**

Propoxur 114-26-1 Neurotoxin

**U.S. - Minnesota - Hazardous Substance List**

Propoxur 114-26-1 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

D-Phenothrin 26002-80-2 sn 3727

Propoxur 114-26-1 sn 1604

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Propoxur 114-26-1 1 Lb RQ (air); 1 lb RQ (land/water)

**U.S. - Pennsylvania - RTK (Right to Know) List**

Propoxur 114-26-1 Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**

Propoxur 114-26-1 Toxic

**U.S. - Washington - Dangerous Waste - Dangerous Waste Constituents List**

Propoxur 114-26-1 Present

**U.S. - Washington - Dangerous Waste - Discarded Chemical Products List**

Propoxur 114-26-1 Dangerous Waste No. U411

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/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)

**16. Other Information**

LEGEND HMIS	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	0
Physical Hazard	0
Personal Protection	X

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Issue date**

09-Nov-2011

**Effective date**

01-Nov-2011

**Prepared by**

Sergeant's Regulatory Department

**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

Supersedes MSDS dated: 15-Apr-2008