

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078360759

N/A

**MATERIAL SAFETY DATA SHEET**

MSDS # 3510-402

Identity: Virbac® Knockout Area Treatment  
with Nylar® (Pyriproxyfen) Insect Growth Regulator

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Product Code 612014

**Section I**

## Supplier Information:

## Emergency Telephone Number

Name: VIRBAC CORP.  
Virbac AH Inc.  
Address: P. O. BOX 162059  
City: FORT WORTH  
State: TX 76161

Transportation: Chemtrec 800-424-9300  
Other emergencies:  
**POISON CONTROL CENTER or 911**  
Telephone Number for Information  
Contact Virbac: 800/338-3659

**Section II - Hazardous Ingredients/Identity Information**

Contents under pressure. Keep away from heat, sparks and open flame.  
Do not puncture or incinerate container.  
Exposure to temperatures above 130°F may cause bursting.  
Harmful if swallowed, inhaled or absorbed through the skin.  
Avoid breathing vapors or spray mist.  
Avoid contact with eyes, skin or clothing.

Hazardous Components (Special Chemical Identification; Common Name)	OSHA PEL	ACGIH TLV	STEL	CAS #	% (opt.)
Pyriproxyfen	Not Applicable	Not Applicable	Not Applicable	95737-68-1	0.015%
Tetramethrin	Not Applicable	Not Applicable	Not Applicable	7696-12-0	0.400%
Phenothrin	Not Applicable	Not Applicable	Not Applicable	26002-80-2	0.300%
LPA Solvent	Not Applicable	Not Applicable	Not Applicable	64742-47-8	99.285
Propellant A-46					
Propane	Not Applicable	100 ppm	Not Applicable	74-98-6	
Butane	Not Applicable	800 ppm	Not Applicable	75-28-5	

**Section III - Physical/Chemical Characteristics**

Boiling Point:	Not Applicable
Specific Gravity (H <sub>2</sub> O = 1):	1.024
Vapor Pressure (mm Hg):	Not Applicable
Melting Point:	Not Applicable
Vapor Density (AIR = 1):	1.0
Evaporation Rate (Butyl Acetate = 1):	Not Applicable
Solubility in Water:	Dispersible
Appearance and Odor:	Opaque liquid concentrate with solvent/insecticidal odor.

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used):	>200°F (Tag Closed Cup).
Flammable Limits:	LEL: Not Applicable UEL: Not Applicable
Extinguishing Media:	Do not spray into open flame or onto very hot surfaces. Dry chemical, carbon dioxide, or foam suitable for the surrounding fire and materials. Water may be used to cool drums.
Special Firefighting Procedures:	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals. Firefighters should use protective shielding to avoid being hit by rupturing containers.
Unusual Fire and Explosion Hazards:	Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

Identity: Virbac® Knockout Area Treatment  
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**Section V - Reactivity Data**

Stability	Stable
Incompatibility	(Materials to Avoid): Heat and open flame.
Hazardous Decomposition or Byproducts:	Products of combustion are principally carbon dioxide, carbon monoxide, and water.
Hazardous Polymerization	WILL NOT OCCUR
Conditions to Avoid:	Do not spray into open flame or onto very hot surfaces. Do not store above 130°F. Do not store near open flame.

**Section VI - Health Hazard Data**

Routes of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic):	None presently known.		
Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
Signs and Symptoms of Exposure:	May cause temporary discomfort to the eyes. May cause mild skin irritation Slight irritation to respiratory passages. Amounts transferred to the mouth by fingers, etc., during normal operation should not cause injury.		
Medical Conditions Generally Aggravated by Exposure:	None presently known.		
<b>Emergency and First Aid Procedures</b>			
INGESTED:	If swallowed immediately call a physician or Poison Control Center. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person.		
SKIN CONTACT:	Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.		
EYE CONTACT:	Hold eyes open and rinse eyes slowly and gently with water for a minimum of 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes. Call a Poison Control Center or a physician for treatment advice.		
INHALATION:	Move person to fresh air. If person is not breathing, call 911 or an ambulance. Then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.		
Note:	Have the product container or label with you when calling a Poison Control Center or physician, or going for treatment. You may also contact the National Animal Poison Control Hot Line at 1-800-345-4735 for emergency medical treatment information for your pet.		

**Section VII - Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled:	Remove ignition sources. Use absorbent material to collect and contain for salvage or disposal. Ventilate area. This product contains no CERCLA listed chemicals.
Waste Disposal Method:	If empty place in trash or offer for recycling if available. For partially filled containers, call your local solid waste agency for disposal instructions.
Precautions to be Taken in Handling or Storage:	Never place unused product down any indoor or outdoor drain. Do not contaminate water, food or feed by storage or disposal. Do not store above 130°F. Do not store near open flames. Avoid contamination of feed and foodstuff. Do not use in commercial food processing, preparation, food storage or serving areas. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed. Remove pets, birds and cover fish aquariums before spraying.

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## Other Precautions:

Keep out of the reach of children.  
Contents under pressure.  
Keep away from heat, sparks and open flame.  
Do not puncture or incinerate.  
Exposure to temperatures above 130°F may cause bursting.  
Use only at normal room temperature  
Read and follow directions on product label.  
Harmful if swallowed or absorbed through the skin.  
Avoid breathing mist or vapor.  
Avoid contact with eyes, skin or clothing.

**Section VIII - Control Measures**

Respiratory Protection: No respiratory protection required when used according to label directions.  
Use only in a well-ventilated area.  
Use only at room temperature.

Ventilation Local Exhaust: Use only in a well-ventilated area.  
Special: Not Applicable  
Mechanical (General): Not Applicable

Protective Gloves: Solvent resistant gloves are highly recommended.

Eye Protection: NIOSH approved safety glasses or goggles.

Other Protective Clothing or Equipment: None required when used according to label.  
Professional groomers or applicators (those with repeated and extended exposure) should wear goggles, an OSHA approved respirator, apron, and rubber gloves at a minimum when working with this and other similar products.

Work/Hygienic Practices: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.  
Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

**Section IX - Additional Information**

DOT Proper Shipping Name: (49 CFR 172.101) Consumer Commodity.

DOT Hazard Class (49 CFR 172.101) ORM-D

Generic Description: Insecticidal Aerosol

REGULATORY REQUIREMENTS: This product is not subject to reporting requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

Virbac is a registered trademark of VBSA.

Nylar is a registered trademark of McLaughlin Gormley King and Company.

Disclaimer of Expressed and Implied Warranties: This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.

Prepared by Regulatory Affairs Department

New MSDS Date: September 24, 2010

Supersedes MSDS Date: February 23, 2009



# SAFETY DATA SHEET KNOCKOUT™ Area Treatment

## 1. IDENTIFICATION

<b>Product Name</b>	KNOCKOUT™ Area Treatment
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Insecticide spray for use in homes and residential use sites.
<b>Restrictions on Use</b>	For indoor use only. Not for use in commercial or industrial buildings. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
<b>Company Identification</b>	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161 (800) 338-3659
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>Chemtrec Number</b>	(800) 424-9300
<b>Other Emergency Number:</b>	Poison Control Center: 1-800-222-1222 (human) HOT LINE NUMBER: 1-800-338-3659 (human and pet)
<b>Issue Date</b>	December 19, 2016
<b>Supersedes Date</b>	September 24, 2010
<i>Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)</i>	

## 2. HAZARD IDENTIFICATION

**Hazard Classification**  
Flammable Aerosols - Category 1  
Acute hazard to the aquatic environment - Category 1 (This classification not adopted by OSHA)

**Label Elements**  
Hazard Symbols



Signal Word: Danger

**Hazard Statements**  
Extremely flammable aerosol.  
Very toxic to aquatic life.

### Precautionary Statements

#### Prevention

Pressurized container: Do not pierce or burn, even after use.  
Do not spray on an open flame or other ignition source.  
Keep away from heat/sparks/open flame/hot surfaces. - No smoking.  
Avoid release to the environment.

#### Response

Collect spillage.



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## 2. HAZARD IDENTIFICATION

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### Storage

Protect from sunlight.  
Do not expose to temperatures exceeding 50 °C/122 °F.

### Disposal

Dispose of contents/container in accordance with local regulation.

### Other Hazards

Vapors are heavier than air and can cause suffocation by reducing available oxygen.  
See Section 15 for FIFRA label elements.

### Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	15 - 25%
Acute dermal toxicity	15 - 25%
Acute inhalation toxicity	20 - 30%
Acute aquatic toxicity	20 - 30%

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### Synonyms:

This product is a mixture.

Component Name	CAS Number	Concentration
Propane	74-98-6	5 - 15%
Isobutane	75-28-5	5 - 15%
Hydrotreated light petroleum distillates	64742-47-8	5 - 10%
Tetramethrin	7696-12-0	0.4%
Phenothrin	26002-80-2	0.3%
Pyriproxyfen	95737-68-1	0.015%

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## 4. FIRST-AID MEASURES

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### Description of necessary first-aid measures

#### Eyes

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 the eye. Call a poison control center or doctor for treatment advice.

#### Skin

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

#### 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.

#### Inhalation

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.



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**4. FIRST-AID MEASURES**

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**Most important symptoms/effects, acute and delayed**

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

**Indication of immediate medical attention and special treatment needed**

**Notes to Physicians**

Treat symptomatically.

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**5. FIRE-FIGHTING MEASURES**

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**Extinguishing Media**

Water spray, carbon dioxide and dry chemical. Use extinguishing media appropriate for surrounding materials.

**Unusual Fire and Explosion Hazards**

Can release hazardous vapors during a fire.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective clothing.

**Environmental Precautions**

Prevent the material from entering drains or watercourses.

**Methods and materials for containment and cleaning up**

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Do not puncture, incinerate or place aerosol product containers in compactors. Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor or spray. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use. Do not flame cut, braze or use welding torch on container.

**Conditions for safe storage**

Store away from sources of heat or ignition. Storage area should be: cool - dry - well ventilated - away from incompatible materials - out of direct sunlight - away from sources of ignition (heat, sparks, flames, and pilot lights) Do not store above 122°F.



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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist.

**Propane**

ACGIH: See ACGIH Appendix F: Minimal Oxygen Content.

OSHA: PEL 1000 ppm (1800 mg/m<sup>3</sup>) 8h TWA.

**Isobutane as Butane, all isomers**

ACGIH: 1000 pm 15 min STEL

**Hydrotreated light petroleum distillates**

Supplier recommended limit: 100 ppm (525 mg/m<sup>3</sup>) 8h TWA (Petroleum Distillate – Stoddard Solvent)

**Appropriate engineering controls**

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

**Individual protection measures**

**Respiratory Protection**

Respiratory protection if there is a risk of exposure. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.

**Skin Protection**

Chemical resistant gloves.

**Eye/Face Protection**

Safety glasses or goggles.

**Body Protection**

Waterproof apron.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

	<b>Physical State</b>	Liquid
	<b>Color</b>	Opaque
<b>Odor</b>		Solvent/insecticidal
<b>Odor Threshold</b>		No data available
<b>pH</b>		No data available
<b>Specific Gravity</b>		1.0
<b>Boiling Range/Point (°C/F)</b>		>93.3/200
<b>Melting Point (°C/F)</b>		Not applicable
<b>Flash Point (PMCC) (°C/F)</b>		No data available
<b>Vapor Pressure</b>		Not applicable
<b>Evaporation Rate (BuAc=1)</b>		Not applicable
<b>Solubility in Water</b>		Miscible
<b>Vapor Density (Air = 1)</b>		Not applicable
<b>VOC</b>		Not applicable
<b>Partition coefficient (n-octanol/water)</b>		Not applicable
<b>Viscosity</b>		Not applicable
<b>Auto-ignition Temperature</b>		No data available
<b>Decomposition Temperature</b>		No data available





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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Upper explosive limit</b>	No data available
<b>Lower explosive limit</b>	No data available
<b>Flammability (solid, gas)</b>	No data available

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**10. STABILITY AND REACTIVITY**

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**Reactivity**

Data is not available

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Heat – temperatures above 130°F

**Incompatible Materials**

Oxidizers – strong acids and bases

**Hazardous Decomposition Products**

Oxides of carbon – volatile hydrocarbon vapors

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**

Hydrotreated light petroleum distillates

Oral LD50 (rat) >5000 mg/kg

Tetramethrin

Oral LD50 (rat) >5000 mg/kg

Dermal LD50 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) >1.18 mg/l 4 hr

Phenothrin

Oral LD50 (rat) >5000 mg/kg

Dermal LD50 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) >2.1 mg/l 4 hr

Pyriproxyfen

Oral LD50 (rat) >5000 mg/kg

Dermal LD50 (rabbit) >2000 mg/kg

Inhalation LC50 (rat) >1.3 mg/l 4 hr

**Specific Target Organ Toxicity (STOT) – single exposure**

Pyriproxyfen: Subchronic oral toxicity studies conducted with Pyriproxyfen Technical in the rat, mouse and dog indicate a low level of toxicity. The NOELs from these studies were 1000 ppm (149.4 mg/kg/day) in mice, 100 mg/kg/day in dogs and 400 ppm (23.5 mg/kg/day) in rats.



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**11. TOXICOLOGICAL INFORMATION**

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**Specific Target Organ Toxicity (STOT) – repeat exposure**

Pyriproxyfen: No significant systemic toxicity was observed in either the 21-day dermal toxicity study in rats or the 28-day inhalation toxicity study in rats. Subchronic and chronic toxicity studies in mice, rats and dogs indicate that the liver and kidney are the principal target organs with slight anemia occurring in the rodent species.

Tetramethrin: In a 21-day dermal toxicity study in rats at doses of 0, 100, 300, or 1,000 mg/kg/day in 5/sex/dose Sprague-Dawley rats. There were no treatment-related systemic toxic effects and a LOAEL was not established.

**Serious Eye damage/Irritation**

Pyriproxyfen: Eye irritation reversible within 7 days (Category III - EPA)

Tetramethrin : Eye irritation reversible within 7 days (Category III - EPA)

Phenothrin: Mild irritant (Category III - EPA)

**Skin Corrosion/Irritation**

Pyriproxyfen: Mild or slight skin irritation at 72 hours. (Category IV - EPA)

Phenothrin: Non-irritating (rabbit). (Category IV - EPA)

**Respiratory or Skin Sensitization**

Phenothrin: Not a skin sensitizer (guinea pig).

Pyriproxyfen: Non-sensitizing (guinea pig).

**Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Germ Cell Mutagenicity**

No relevant studies identified.

**Reproductive Toxicity**

Pyriproxyfen: There was no evidence of increased susceptibility to rat and rabbit fetuses in prenatal developmental toxicity studies or to rat offspring in the 2-generation rat reproduction study. No evidence of developmental toxicity was seen in special studies that evaluated pyriproxyfen toxicity following perinatal and prenatal exposure in rats.

**Aspiration Hazard**

Not an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Tetramethrin

LC50 Rainbow trout 3.7 ppb 96h

EC50 Daphnia magna 45 ppb 48h

Phenothrin

LC50 Bluegill Sunfish 15.8 µg/l 96h

LC50 Daphnia magna µg/l ppb 48h

**Mobility in soil**

No relevant studies identified.



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**12. ECOLOGICAL INFORMATION**

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**Persistence/Degradability**

No relevant studies identified.

**Bioaccumulative Potential**

No relevant studies identified.

**Other adverse effects**

No relevant studies identified.

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**13. DISPOSAL CONSIDERATIONS**

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**Product Disposal and Container Handling:** Do not puncture or incinerate. If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions.

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**14. TRANSPORT INFORMATION**

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Contact supplier for transport information.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

This product is excluded from TSCA as it regulated under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

**Federal Insecticide, Fungicide, and Rodenticide Act**

This is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

Front Panel:

FOR INDOOR USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**SEE SIDE/BACK PANEL FOR  
ADDITIONAL PRECAUTIONARY STATEMENTS**

Side/Back Panel:

**READ ENTIRE LABEL BEFORE EACH USE**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:** Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber or viton). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Avoid contamination of food and foodstuffs.



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**15. REGULATORY INFORMATION**

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**PHYSICAL AND CHEMICAL HAZARDS**

Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. (PICTURE OF FLAME)

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1 800 345 4735 for emergency medical treatment information.

**DIRECTIONS FOR USE (see label for complete instructions)**

**PRECAUTIONS AND RESTRICTIONS**

Do not enter or allow others to enter the treated area until the sprays have dried. Do not allow people or pets to enter treated areas until vapors, mists, or aerosols have dispersed, and the treated area has been thoroughly ventilated. Remove pets, birds, and cover fish aquariums and ornamental fish ponds before spraying and turn aquarium systems off. Do not apply when food is present. Cover all food processing surfaces and utensils during treatment and thoroughly wash utensils before use.. Do not apply this product in a way that will contact adults, children or pets either directly or through drift.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage:** Store in a cool dry place inaccessible to children and away from heat and open flame. Store away from food and pet food.

**Pesticide Disposal and Container Handling:** Do not puncture or incinerate. **If empty:** Place in trash or offer for recycling, if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

**Canada DSL Inventory**

This product is excluded from DSL listing as it is regulated under the Pest Control Products Act when used as a pesticide.

**SARA Title III Sect. 311/312 Categorization**

Flammable (aerosol)

**SARA Title III Sect. 313**

The following chemicals are listed in Section 313 at or above de minimis concentrations: None

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**16. OTHER INFORMATION**

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biological Oxygen Demand

CAS#: Chemical Abstracts Service Number

DSL: Domestic Substances List

ECHA: European Chemicals Agency

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

HDT: Highest Dose Tested

HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: L LOEL: Lowest Observed Effect Level

N/A: Denotes no applicable information found or available

NFPA: National Fire Protection Association

NOEL: No Observed Effect Level

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit



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**16. OTHER INFORMATION**

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Lethal Dose 50%  
TSCA: Toxic Substances Control Act  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
WHMIS: Workplace Hazardous Materials Information System  
TLV: Threshold Limit Value  
TSCA: Toxic Substance Control Act  
UK-VMD: United Kingdom Veterinary Medicines Directorate

Revision Date: December 19, 2016  
Replaces: September 24, 2010  
Changes made: Updated to GHS classification.

**Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

**Prepared By:** EnviroNet LLC.

KNOCKOUT is a trademark of Virbac.

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