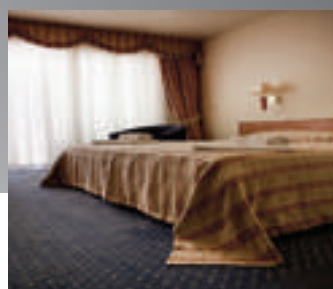


# IGR'S



Introducing Meteor, Pivot and Pivot 10 Insect Growth Regulators to help break listed insects life-cycle. Try one of our premium insect growth regulators combined with one of Control Solutions top quality aduclicides for maximum control.

**METEOR™**  
IGR CONCENTRATE

**PIVOT®**  
IGR CONCENTRATE

**PIVOT® 10**  
IGR CONCENTRATE

**Actives** 1.2% (S)-Methoprene 1.3% Pyriproxyfen 10% Pyriproxyfen

**Sizes** 1 oz., Pints Pints,\* 1 oz., 4 oz. 110mL

**Amt. per 1gal needed to treat 1,500 sq ft** 1 oz. 1 oz. 4-12 mL's

**Food Areas** ✗ ✓ ✓

**Indoor & Outdoor Use** 🏠 Indoors Only ✓ ✓

**Residual up to:** 7 months 7 months 7 months

**ULV or Fogging Applications** ✗ ✗ ✓

\* 1 oz. & 4 oz. sold as I.G. Regulator

800-242-5562 (Phone)  
281-892-2501 (Fax)  
www.controlsolutionsinc.com

**CSI**  
**CONTROL**  
**SOLUTIONS**  
incorporated  
A Makhteshim-Agan Company

# METEOR<sup>TM</sup>

## IGR CONCENTRATE

- With S-Methoprene Insect Growth Regulator
- Lasts 210 days
- Breaks the flea life cycle
- To Prevent the Emergence of Adult Fleas Indoors

#### ACTIVE INGREDIENT:

(S)-Methoprene (CAS #65733-16-6) ..... 1.2%

OTHER INGREDIENTS: ..... 98.8%

TOTAL: ..... 100.0%

\*Contains petroleum distillates

EPA Reg. No. 87276-7-53883

EPA Est. No. 53883-TX-002

### KEEP OUT OF REACH OF CHILDREN CAUTION

For Chemical Spill, Leak, Fire, Exposure, or  
Medical Emergencies, Call:  
SafetyCall® Intl. 1-866-897-8050

Manufactured by:  
**Control Solutions, Inc.**  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

#### FIRST AID

<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give <b>any</b> liquid to the person.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>

#### 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 SafetyCall® Intl. at 1-866-897-8050 for emergency medical treatment information.

**NOTE TO PHYSICIAN:** This product contains petroleum distillates.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

This product may not be used or referenced as a source of ingredient in the formulation, manufacture, or registration of any other products without prior written authorization from Control Solutions, Inc.

#### PRODUCT INFORMATION

This product contains the active ingredient S-Methoprene, an insect growth regulator that prevents fleas from maturing into adults by acting in the early stages of development. Treatment with this product on areas where there are flea larvae, that flea larvae will enter into, or where flea eggs have been deposited will prevent adult fleas from developing for up to 7 months. Because this product is a growth regulator, it does not affect fleas that have reached full development or fleas that have reached the pupae stage.

**IMPORTANT NOTE:** In order to prevent fleas from being introduced indoors, it is important to treat pets to ensure that they do not carry fleas. Treat pets with a product registered with the EPA and labeled for such a use.

#### MIXING DIRECTIONS

Prepare product as a diluted spray solution by adding 1 ounce of this product to 1/2 gallon of water in a mixing container and agitate thoroughly. Then add an additional 1/2 gallon of water and agitate again, resulting in one gallon of spray solution.

#### TANK MIXES

If there is already a high population of fleas at the biting (adult) stage, tank-mix this product with an EPA registered product that is labeled for use to control fully developed/adult fleas. Add the product you are tank mixing with this product to 1/2 gallon of water in the mixing container and agitate thoroughly. Then add this product to the mixing container and agitate further. Finally, add an additional 1/2 gallon of water to the mixing container to create one gallon of spray solution and agitate the mixture thoroughly.

#### APPLICATION RATE

Apply this product at the rate of 1 gallon diluted spray solution (see "MIXING DIRECTIONS" above) per 1500 square feet of surface area.

#### METHOD OF APPLICATION

In order to prevent fleas and flea infestation, apply this product before the flea season. Users/applicators must ensure that they shake the solution well prior to each use.

Apply to areas where fleas, flea eggs and flea larvae are or are likely to be located such as surfaces where pets sleep, carpets, rugs and upholstered furniture (including on and under cushions and throw rugs) using a low pressure sprayer with a fan tip typically used for indoor applications.

**NOTE:** This product typically will not stain materials that would not be stained by water alone. However, prior to full application a test should be made by applying a small amount of diluted solution to an inconspicuous area in order to determine whether staining will take place.

Avoid contact with areas that have been treated until they are dry.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool place away from heat or open flame.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### LIMITATION OF WARRANTY AND LIABILITY

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Control Solutions, Inc., and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law Control Solutions, Inc. or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CONTROL SOLUTIONS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CONTROL SOLUTIONS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

Control Solutions, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Control Solutions, Inc.

# MATERIAL SAFETY DATA SHEET

Emergency Phone (SPILLS): Chemtrec 800-424-9300

Effective Date: April 4, 2011

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** METEOR™ IGR Concentrate

**DESCRIPTION:** A liquid insect growth regulator.

EPA Reg. No. 87276-7-53883

### COMPANY IDENTIFICATION:

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Composition</u>
(S)-Methoprene	Isopropyl (2E, 4E, 7S)-11-methoxy -3,7,11 -trimethyl-2,4-dodecadienoate	65733-16-6	1.2%
Petroleum distillates	N/A	64742-47-8	> 85%

## 3. HAZARD IDENTIFICATION

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:** Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

## 4. FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

**IF ON SKIN OR CLOTHING:** 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.

**IF IN EYE:** 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.

**IF SWALLOWED:** *This product contains petroleum distillates.* Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

**Flash point (Closed Cup):** 145.4°F

**Flammable Limits (LFL-UFL):** 203°F

**Fire and Explosion Hazards:** Combustible liquid.

**Means of Extinction:** Water fog, foam, dry chemical or CO<sub>2</sub>.

**Fire Fighting Instructions:** Dike and collect any runoff to prevent entry to drains or water bodies.

**Firefighting Equipment:** Self-contained breathing apparatus and full bunker gear.

**NFPA Ratings:** Health – 1 / Flammability – 2 / Instability – 0

## 6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Eliminate ignition sources and control spill at the source and dike spill to prevent material from entering soil, sewers,

waterways or low areas. Cover entire spill with absorbing material and place into compatible disposal containers. Once all material is cleaned up and placed in disposal containers, seal the containers and arrange for disposal.

## 7. HANDLING AND STORAGE

Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash contaminated clothing before reuse and discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Do not contaminate water, food, or feed by storage or disposal. Keep container closed when not in use. Protect from heat or flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Handle only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** For prolonged exposure, wear protective eyewear, chemical-resistant gloves (such as barrier laminate or butyl rubber or nitrile rubber or viton), long-sleeved shirt and long pants, shoes plus socks.

**General:** Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Oily light yellow to amber liquid

**Odor:** Faint aliphatic

**pH:** 5.2 – 5.6 (1% solution)

**Density:** 6.84 lbs/gal

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Flame and sparks.

**CHEMICAL STABILITY:** Stable under normal use and storage conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may generate carbon monoxide and dioxide.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents.

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Data for (S)-Methoprene:**

### **ACUTE ORAL TOXICITY**

Oral LD<sub>50</sub> (rat): > 34,000 mg/kg

### **ACUTE DERMAL TOXICITY**

Dermal LD<sub>50</sub> (rat): > 2,000 mg/kg

### **ACUTE INHALATION TOXICITY**

Inhalation LC<sub>50</sub> (rat): > 5.19 mg/L (4-hour)

### **EYE IRRITANT**

Rabbit – Practically non-irritating

### **SKIN IRRITATION**

Rabbit – Non-irritating

### **SENSITIZATION**

Guinea Pig – Not a contact sensitizer

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

### **CARCINOGENICITY:**

**ACGIH:** Not listed

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**MUTAGENIC DATA:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**ADDITIONAL DATA:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

**Data for (S)-Methoprene:**

### **AQUATIC TOXICITY**

Rainbow Trout (LC<sub>50</sub>): 760 ppb

Bluegill Sunfish (LC<sub>50</sub>): >370 ppb

Daphnia (EC<sub>50</sub>): 360 ppb

## 13. DISPOSAL CONSIDERATIONS

**Do not contaminate water, food or feed by disposal.**

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Refer to the product label for additional container disposal instructions.

## 14. TRANSPORT INFORMATION

**DOT PROPER SHIPPING NAME:** Not regulated by DOT.

**SEVERE MARINE POLLUTANT:** No

## 15. REGULATORY INFORMATION

### **FIFRA –**

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

### **SARA Title III – Section 302 Extremely Hazardous Substances**

Not Listed

### **SARA Title III – Section 311/312 Hazard Categories**

Immediate, Fire

### **SARA Title III – Section 312 Threshold Planning Quantity**

N/A

### **SARA Title III – Section 313 Reportable Ingredients**

None

### **CERCLA –**

N/A

### **CALIFORNIA PROP 65 STATUS –**

This product does not contain any chemicals known to the state of California to cause cancer or reproductive toxicity.

## 16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

### **DISCLAIMER:**

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Control Solutions, Inc., and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law Control Solutions, Inc. or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CONTROL SOLUTIONS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CONTROL SOLUTIONS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

Control Solutions, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Control Solutions, Inc.



# PIVOT®

## IGR Concentrate

- **Inhibits reinfestation by fleas for up to 7 months**
- **Reduces egg production in houseflies and prevents development of larvae into adults**
- **Inhibits reinfestation by listed cockroaches for up to 6 months**
- **Effective long-term control of Fleas, Roaches, Flies, Mosquitoes, Gnats, Crickets, Litter Beetles & Ants**
- **Photostable for up to 14 days**
- **For use on Furniture, Animal Quarters, Carpets, Kennels, Poultry Houses**
- **For Indoor/Outdoor use**

#### ACTIVE INGREDIENT:

2-[1-Methyl-2-(4-phenoxyphenoxy) ethoxyl] pyridine [Pyriproxyfen] .....1.30%

\*OTHER INGREDIENTS: .....98.70%

TOTAL: .....100.00%

\*Contains petroleum distillate

## KEEP OUT OF REACH OF CHILDREN CAUTION

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

#### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give any liquid to the person.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</b> You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN:</b> Contains petroleum distillate; vomiting may cause aspiration pneumonia.	

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Do not breathe vapors or spray mist. Avoid contact with skin or eyes. In case of contact, flush with plenty of water. Wash with soap and warm water after use. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply direct to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning equipment or disposal of equipment washwaters.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

#### For use in areas such as:

Industrial Plants, Factories, Warehouses, Commercial Buildings, Condominiums, Apartments, Cabins, Day Care Centers, Mobile Homes, Homes, Hospitals, Hotels, Motels, Nursing Homes, Office Buildings, Other Public Buildings, Campsites, Gas Stations, Prisons, Rooms, Schools, Parks, Institutions, Jails, Sport Stadiums, Supermarkets, Taverns, Theaters, Morgues, Mortuaries, Crematoriums, Funeral Parlors, Mausoleums, Atriums, Attics, Bathrooms, Basements, Bedrooms, Porches, Closets, Draperies, Dressers, Kitchens, Porches Upholstered Furniture, Cabinets, Crawl Spaces, Carpet, Campers, Garbage Areas, Garbage Cans, Patios, Garages, Gazebos, Storage Areas, Floors, Furniture, Locker Rooms, Utility Room Indoor, Utility Room Outdoor, Washrooms;

Animal Quarters (enclosed premise treatment), Cat Living Quarters (enclosed premise treatment), Dog Houses, Dog Living Quarters, Dog Kennel Runs, Kennels, Pet Bedding, Pet Carriers, Pet Grooming

Parlors, Pet Sleeping Areas, Pet Stores, Pet Quarters (enclosed premise treatment), Veterinaries, Zoos; Candy Plants, Canneries, Bakeries, Breweries, Cereal Processing Facilities, Food Processing Plants, Food and Non-Food Warehouses, Cafeterias, Indoor Eating Establishments, Grocery Stores, Institutional Dining Areas, Flour Mills, Grain Storage Facilities, Outdoor Eating Establishments, Recreational Areas Outdoors, Restaurants, Dairies, Delicatessens;

Transportation Equipment (automobiles, boxcars, buses, boats, trucks, railcars, ship cargo holds) Lawns

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

##### Precautions:

- For best results, follow directions for specific use areas.
- Do not use this product in or on electrical equipment due to possibility of shock hazard.
- Avoid excessive wetting of carpet, draperies and furniture.
- Always test in an inconspicuous area prior to use as some natural and synthetic fibers may be adversely affected by any liquid product.

##### Restrictions:

- When used in hospital rooms, convalescent hospital rooms, and nursing home rooms, patients should be removed prior to treatment.
- Ventilate treated rooms thoroughly for two (2) hours after treatment. Do not return patients to treated room until after ventilation.

#### READ ALL DIRECTIONS COMPLETELY BEFORE USE

##### FLEA CONTROL

The active ingredient in Pivot is Pyriproxyfen, an insect growth regulator. Insect growth hormones are naturally occurring in insects and Pivot prevents the adult flea from developing. These properties will gradually result in the reduction and eventually elimination of the flea population. Flea eggs and flea larvae that come into contact with Pivot will also not develop into adult fleas. Pivot works for 7 months by inhibiting the development of the immature stages of the flea and preventing them from reaching the biting adult stage. Pivot does not work on adult fleas and flea pupae that already exist.

**Note:** If a high population of adult fleas are present, it may be necessary to use an adulticide. Pivot may also be combined with a flea adulticide.

Application of Pivot prior to the flea season will aid in reducing developing populations. Apply to areas where pets and other animals are known to frequent and where previous infestations have been known to occur to prevent the emergence of adult fleas and also control stages of fleas that don't resemble fleas.

##### INDOORS:

Mix Pivot with water and apply with spray equipment such as any low pressure sprayer used for indoor applications. Before treatment, vacuum carpets, draperies and upholstered furniture. Dispose of vacuum bag in an outdoor trash receptacle.

##### Note:

- Remove pets from area to be treated.
- After treatment, do not allow children and pets into treated areas until spray has dried.

**Spray Mixing:** Prepare a diluted spray solution by adding 1 ounce per gallon of water. Partially fill the mixing container with water, add Pivot, agitate and fill to final volume. Do not allow spray mixture to stand overnight. Mix before each use.

**Use With an Adulticide Insecticide:** For immediate relief of adult fleas, Pivot may be combined with an insecticide registered for adult control of fleas. This mixture will also inhibit the development of the immature stages of the flea for 7 months. Follow all precautions and use directions on both products. Use at the application rate specified above.

##### GENERAL SURFACE APPLICATION:

Apply Pivot diluted spray at the rate of 1 gallon per 1,500 square feet of surface area. Treat all areas including carpets, furniture, pet sleeping areas and throw rugs making sure to spray underneath cushions, etc. Repeat treatment as necessary.

**Note:** Do not allow children or pets to contact treated surfaces until spray has dried.

**Use With a Carpet Shampoo:** Pivot may be used with a liquid, non-heat extracting carpet shampoo application. Following dilution instructions on carpet shampoo, add 1 fluid ounce of Pivot per gallon (7.8 mL/L) of diluted shampoo to be applied to carpet. Mix well and shampoo carpet as per instructions on the shampoo product label using approximately one gallon of diluted shampoo to treat 1,500 sq ft. (139 m<sup>2</sup>) Allow carpet to completely dry and vacuum thoroughly.

##### IN KENNELS AND DOGHOUSES:

Pivot will control the development of preadult fleas from becoming biting and reproductive adult fleas. Make application with an adjustable hose-end sprayer, tank type sprayer or sprinkling can.

Prepare a diluted spray solution adding 1 ounce per gallon of water and apply at a rate of 1 gallon diluted solution per 1,500 square feet of surface area. Apply to building, resting areas, walls, floor, animal bedding and run areas. Remove animals before spraying and do not return animals to treated areas until spray has dried completely.

Pets and their bedding should also be treated with EPA registered flea and tick control products, flea

or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program to prevent the introduction of adult fleas. Repeat at 6 month intervals.

#### OUTDOORS:

Apply Pivot dilution as a spot treatment to areas where pets normally frequent including, but not limited to under trees, ornamental plants and shrubs. Application on soil surfaces will provide 21 days of IGR activity. If large populations of adult fleas exist, treat the lawn area with an EPA registered lawn treatment product to kill adult fleas.

**Spray Mixing:** To prepare a diluted spray solution, mix 1.0 ounce in 5 to 15 gallons of water, depending on equipment used, to cover 1,000 square feet. Partially filling the sprayer with water, add Pivot, agitate and fill with water to the final volume. Agitate before each spray.

Using a hose-end sprayer, tank type sprayer or sprinkling can, spray using a slow, even sweeping motion, making sure to cover surface areas where the pets normally frequent. One (1) tsp. per gallon will cover 333 square feet for spot treating pest resting areas. Repeat application in 21 days.

#### Note:

- Do not allow the spray mixture to stand overnight.
- Caution should be taken to avoid spraying when wind conditions could create a mist to blow back to applicator.
- Do not apply this product in or around bodies of water.
- Avoid soaking young or flowering plants.
- Remove animals before spraying.
- Do not allow animals or children to return to treated areas until spray has dried completely.

Pets and their bedding should also be treated with EPA registered flea and tick control products, flea or flea and tick collar, pet dust, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as a part of a complete flea control program to prevent the introduction of adult fleas.

#### FOR GERMAN, ASIAN, AND BROWN BANDED COCKROACH AND CRICKET CONTROL:

The active ingredient in Pivot is Pyriproxyfen an insect growth regulator. Insect growth hormones are naturally occurring in insects and Pivot will prevent nymphal cockroaches and crickets from developing into adults. After application, cockroaches with twisted wings will begin to appear indicating that they are unable to reproduce. When used as directed, cockroach and cricket populations will be eliminated. One treatment works for 6 months against hatching cockroaches and crickets.

If a high population of adult cockroaches are present, the use of an adulticide may be necessary for immediate relief. Pivot concentrate may also be combined with a cockroach adulticide.

#### INDOORS:

Mix Pivot with water and applied with spray equipment such as any low pressure sprayer typically used for indoor applications.

**Spray Mixing:** Prepare a diluted spray solution by adding 2 ounces per gallon of water. Partially fill the mixing container with water, add Pivot, agitate and fill to the final volume. Agitate before each spray. Do not allow spray mixture to stand overnight.

**Use With an Adulticide Insecticide:** For immediate relief of adult cockroaches, Pivot may be combined with an insecticide registered for adult cockroach control. This mixture will also inhibit the development of the immature stages of the cockroach for 6 months. Follow all precautions and use directions on both products. Use at the application rate specified above.

#### GENERAL SURFACE APPLICATION

**COCKROACHES [Brown Banded Cockroach, Asian Cockroach, German Cockroach] and Cricket:** Apply diluted spray as a spot treatment, surface application and crack and crevice spray at the rate of 1 gallon per 1,000 square feet of surface area. Contact as many insects as possible Thoroughly spray all areas where these pests may hide paying attention to places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, infested furniture and the inside of cabinets and closets. Repeat at 7 month intervals.

#### OUTDOOR PERIMETER TREATMENTS:

Prepare a diluted spray solution by adding 2 ounces per gallon of water into any low-pressure sprayer. Apply at the rate of 1 gallon per 1,000 feet in a band 2 to 4 feet adjacent to and around the structure. Apply at a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Apply spray around window frames, doors, garage doors, patios, decks, carports, shutters, around garbage areas, sill plate and other areas where cockroaches may congregate. Repeat at 7 month intervals.

#### Note:

- Avoid spraying into the air.
- Caution should be taken to avoid spraying when wind conditions could create a mist to blow back to the applicator.
- Do not apply this product in or around bodies of water.

#### FOR CONTROL OF STORED PRODUCT PESTS:

(Including Indian Meal Moths, Rice Moths, Tobacco Moths, Red Flour Beetles, Confused Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Saw-toothed Grain Beetles, Warehouse Beetles, Cigarette Beetles, and Dermestid Beetles).

**FOOD AND NON-FOOD WAREHOUSES:** Pivot may be applied as a general surface, fogger, spot or crack and crevice treatment in food and nonfood storage warehouses. Apply to all areas that may harbor pests, including under and between pallets. Repeat application in 90 days.

**TREATMENT IN FOOD HANDLING ESTABLISHMENTS (Places other than private residences in which food is held, processed, prepared or served):** Application is limited to space, general surface, spot, and/or crack and crevice treatment in food handling establishments where food and food products are held, prepared, processed and served. Space and general surface application may be used only when the facility is not in operation provided exposed food is covered or removed from the area being treated prior to application. Spot, and/or crack and crevice treatments may be used while the facility is in operation provided exposed food is covered or removed from the area being treated prior to application. Food contact surfaces must be thoroughly washed with an effective cleaning compound and rinsed with potable water after use of the product.

**NON-FOOD AREAS:** Pivot may be used to treat nonfood areas. Nonfood areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

**FOOD SERVING AREAS:** Pivot may be used in food areas of food handling establishments, restaurants, or other areas where foods are commercially prepared or served. Pivot may also be used in serving areas only when facility is not in operation or food is not exposed. Serving areas are areas where prepared foods are served, such as dining rooms. In the home all food-processing surfaces and utensils must be covered during treatment or thoroughly washed before use. Food areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Repeat application in 90 days.

**Spray Preparation for Surface, Spot, and Crack and Crevice Application:** Prepare a diluted spray solution by adding 1.5 fluid ounces of Pivot per gallon (11.7 mL/L) of water. Partially fill the mixing container with water, add Pivot, agitate and fill to final volume. Agitate before each spray application.

**Tank Mixing:** Pivot can be mixed with other pesticides and used in accordance with the most restrictive of label limitations and precautions. No label dosage rates may be exceeded.

**Note:** This product cannot be mixed with any product containing a label prohibition against such mixing.

**General Surface Application:** Apply diluted spray at a rate of 1 gallon per 1,500 square feet (27 ml/m<sup>2</sup>). For treatment of food processing and food handling establishments, apply with a sprayer that will give coarse, wet droplets. Spray surfaces, into cracks and crevices in walls and floors, under and between pallets, areas at the base of machinery and equipment, under furniture, in mop and equipment closets, behind cabinets, under shelves and racks, around pipes and openings in floors and walls, along baseboards, in wall voids, and other areas where insects seek harborage. Contact as many insects as possible. Repeat application in 90 days.

**Use With Carpet Shampoo:** Pivot may be combined with a liquid, non-heat extracting, carpet shampoo application. Following dilution instructions on carpet shampoo, add 1 ounce per gallon into shampoo dilution to be applied to carpet. Mix well and shampoo carpet as per instructions on the shampoo product label. Allow carpet to completely dry and vacuum thoroughly.

**Spot and Crack and Crevice Application:** Apply Pivot diluted spray solution using a pressurized spray system capable of delivering a pin-point or variable spray pattern. Crack and Crevice applications may be made directly to areas such as but not limited to crevices, baseboards, floors, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, voids where pests can hide and similar areas. Spot treatments may also be made to areas including but not limited to storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, shelves, drawers and similar areas.

**Fogging Application:** Pivot may be applied as a fog or ultra-low volume (ULV) application with equipment such as ULV equipment, mechanical misting sprayers, aerosol generators, or thermal foggers. To prepare the fogging solution, follow the equipment manufacturer's solution preparation instructions. For fogging applications, Pivot may be diluted with water or petroleum distillate. Apply at a rate of 1.5 fluid ounces (44.3 ml) of Pivot diluted in appropriate carrier per 12,000 cubic feet (340 m). Fogging applications are recommended for larger facilities including food and non-food warehouses. Close area to be treated and shut off all ventilation systems. Apply the product in the air and direct fog or mist toward all areas that may harbor target pests. After treatment, leave the room closed for 30 minutes or longer as recommended by the equipment manufacturer or the labels of other products applied in tank mixing. Do not remain in treated area. Ventilate thoroughly before reentry.

#### CONTROL OF LITTER BEETLES (Such as Darkling, Hide and Carrion Beetles):

Apply Pivot to litter, such as in poultry houses infested with litter beetles. Apply Pivot to litter at the rate of 1 oz. of Pivot per 1,000 sq. ft. space in sufficient volume of water to thoroughly wet the litter. Remove the old litter and animals from immediate treatment area. Make surface treatment immediately after animals are removed and again just prior to new animal placement, making sure to treat areas where beetles frequently occur, such as walls, supports, cages, stalls and around feeders. Application of adulticides, to kill adult egg-laying beetles, to walls and floors at cleanout and before reintroduction of animals, will suppress beetles that escaped earlier treatment and will help delay onset of future infestations.

#### Note:

- Do not contaminate food/feed or water.

Apply Pivot uniformly at the rate of 1 oz. per 1,000 sq. ft. to floor area and to walls, posts, and cage framing (birds grown in cages only). Application should also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. Make perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply Pivot or adulticide insecticides, or both, in a uniform band at least one foot up and 1-4 out from foundation. To maintain population control, it is advisable to maintain a year-round treatment program.

#### CONTROL OF ANTS:

Apply Pivot at the rate of 2 fl. oz. diluted in water per 1,000 sq. ft. to interior areas where ants are actively foraging, and in a band 6-10 feet wide adjacent to the foundation wall of the building. Pivot may be used in a tank mix combination with an adulticide insecticide, or as an alternating treatment with adulticide insecticide. Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.

#### CONTROL OF FLYING INSECT PESTS (Such as Flies, Moths, Midges, Mosquitoes & Gnats):

##### General Surface Treatments:

**For control of HOUSE FLIES, STABLE FLIES, MOTHS, MOSQUITOES, NUISANCE FLIES (GNATS, MIDGES) and other similar flying pest insects such as those classified as Dipterous or Hymenopterous.** In house flies, Pivot causes a decrease in the number and hatching of eggs laid by treated adults. Fly larvae (maggots) treated with Pivot cannot develop into normal adults. The use of Pivot will result in a reduction in adult fly populations after 3-4 weeks, at the time when previously hatched adult flies have died naturally.

Pivot may be used for control of flying insect pests in, on and around buildings as described under **DIRECTIONS FOR USE**. These areas include, but are not limited to residential, commercial, public, industrial and agricultural buildings. Pivot may be used to control nuisance flies, gnats, midges, and mosquitoes by application into moist breeding areas (potted plants, moist debris or litter) or into areas holding standing water such as gutters, drains, pools and fountains.

#### Note:

- Do not apply directly to any natural bodies of water such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.
- If needed, repeat treatments with Pivot may be made 14 days after previous treatment, or if heavy rainfall occurs.

#### Treatments in Combination with an Adulticide:

Use Pivot in alternation or in a tank mix combination with an adulticide insecticide for quick knockdown and more rapid control of adult flying insect pests. As an IPM strategy, combining or alternating Pivot with other types of chemicals, such as pyrethroid or organophosphate insecticides, can reduce or prevent the development of genetic resistance to these adulticide insecticides.

#### Tank Mixes:

Make applications in accordance with those use precautions and label instructions that are consistent for each product. Prepare the tank mix using the recommended label rate of adulticide and Pivot by adding the adulticide first and making sure it is well mixed and in suspension, then adding the correct amount of Pivot according to the label instructions below.

#### Treatments in, on and Around Livestock and Poultry Housing and Pet Kennels:

Pivot may be used by pest control operators or livestock producers in livestock housing structures (including poultry houses) and pet kennels to control flying insect pests. Apply as a general surface, fogger/ULV or a crack and crevice application to areas where flying pests collect or breed. For surface applications, thoroughly wet floors, walls, ceilings, doors, around windows, garbage and refuse areas. When used as directed, Pivot will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments.

- Treat birdcages or stock pens only after removal of animals.
- Do not make interior applications of Pivot in areas of facility where animals are present.
- Allow treated areas to dry before allowing animals back in treated areas of facility.
- Do not contaminate or apply food or foodstuffs, water or watering equipment.

#### Treatments to Interior Areas and Surfaces:

Use 1 fl. oz. of Pivot per gallon of water and apply to 1,500 square feet of surface area, or in sufficient volume to achieve adequate coverage. Treat all areas where flying insects may collect, rest or breed, including vertical walls, ceilings, pipes, conduit, stalls, stanchions, floors, and walkways. When Pivot is used alone, treatments can be extended to animal bedding, manure, and other potential areas where flying insects may breed.

#### Treatments to Perimeter Areas and Surfaces:



Use 1 fl. oz. of Pivot per gallon of water and apply to outside surfaces of buildings, porches, patios, garages and other areas where these pests have been seen or found. For perimeter control, make a general surface application of 1 ounce of product diluted in water such as to cover 1,500 square feet, or in sufficient volume to achieve adequate coverage. To help prevent infestations of buildings by flying insects, treat soil, vegetation or other substrates in a band 6-10 feet wide adjacent to the building foundations, walls, around doors and windows, and overhead areas where these pests are active and may find entrance or harborage.

#### STORAGE AND DISPOSAL

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

**Storage and Spill Procedures:** Store upright at room temperature. Avoid exposure to extreme temperatures. Store in a locked area out of reach of children and domestic animals. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spilled bait, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for Guidance.

**Container Disposal: If empty** - Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If recycling is not available: then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**If partly filled:** Call your local solid waste agency for disposal instructions. Unless otherwise instructed, place in trash. Never pour unused product down the drain or on the ground.

#### [Commercial Language]

**For Bulk containers: (Refillable Container)** Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

**Limitations of Liability:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CONTROL SOLUTIONS, INC. WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL AND IS REASONABLY FIT FOR THE PURPOSES STATED ON THE LABEL WHEN USED IN ACCORDANCE WITH THE DIRECTIONS FOR USE. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. INEFFECTIVENESS OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF CONTROL SOLUTIONS, INC. IN NO CASE SHALL CONTROL SOLUTIONS, INC. BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND CONTROL SOLUTIONS, INC. TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

# Material Safety Data Sheet

## Section 1 – Product Identification

Product Name:	PIVOT® Insect Growth Regulator	EPA Registration #:	53883-60
Manufacturer:	Control Solutions Inc. 5903 Genoa- Red Bluff Pasadena, TX 77507 281-892-2500	EPA Establishment #:	53883-TX-002

## Section 2 – Chemical Composition

Material	CAS #	% by Weight	OSHA PEL/ACGIH TLV
2-[1-Methyl-2-(4-phenoxyphenoxy) ethoxl]pyridine [Pyriproxyfen]	95737-68-1	1.3%	None Established
Inert Ingredients	-	98.7%	None Established

## Section 3 – Hazard Identification

Symptoms of Toxicity:	Inhalation: May cause nasal and respiratory irritation. Ingestion: May cause stomach irritation, nausea, cramps and vomiting.
Flammability:	Combustible.
Reactivity:	Stable under normal storage conditions.
Carcinogenicity:	Not carcinogenic.

## Section 4 – First Aid

Eye Contact:	Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.
Inhalation:	Remove affected person to fresh air. Get medical attention if effects are present.
Ingestion:	Call a poison control center immediately. Do not induce vomiting unless instructed to do so by poison control center.
Dermal Contact:	Remove contaminated clothing and wash before reuse. Wash skin with soap and warm water. Get medical attention if irritation persists.
Notes/Physician's Information:	You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

### Section 5 – Fire and Explosion Hazards

Flash Point:	153°F	Upper Flammability Limit:	N/A
Extinguishing Media:	Foam, CO <sub>2</sub> , dry chemical, water fog	Lower Flammability Limit:	N/A
Special Procedures:	Use SCBA along with full protective gear. Keep nearby containers and equipment cool with water spray. Contain the run-off for proper disposal.		
Unusual Fire Hazards:	Combustible. Toxic runoff may result from firefighting. Treat as an oil fire.		
Reactivity/Stability:	Stable. May release hazardous combustion products such as CO, CO <sub>2</sub> , NO <sub>x</sub> , and NH <sub>3</sub> . Avoid strong oxidizers. Hazardous polymerization will not occur.		

### Section 6 – Spill/Release Procedures

Absorbent:	Universal or oil-only absorbent pads, vermiculite, absorbent booms, or clay granules.
Containment:	Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.
Waste Disposal:	Dispose of waste material in municipal land-fill or through licensed TSDF. Open dumping is prohibited. Not an RCRA hazardous waste.
Reporting:	Report all major spills and uncontrolled releases to proper local, state, and federal agencies.
Emergency Contact #:	Chemtrec: 1-800-424-9300

### Section 7 – Storage and Handling Instructions

Storage Conditions:	Store in a cool, dry place. Keep container closed. Do not store near heat or open flame. Avoid contamination of food or feedstuffs
Special Handling Considerations:	Avoid dermal contact. Take precautions to avoid damaging containers.
Container Disposal:	Do not reuse empty containers. Triple rinse (or equivalent), then offer for recycling or render unusable and dispose of in municipal landfill or with licensed TSDF.

### Section 8 – Protective Equipment/Engineering Controls

Eye Protection:	None required. Safety glasses with side-shields may be used to prevent exposure.
Respiratory Protection:	None required.
Dermal Protection:	Chemical gloves, long sleeves, and pants.
Engineering Controls:	Use only in adequately ventilated areas.
Other Precautions:	Harmful if swallowed or absorbed through skin. Do not breathe vapors or spray mist. Avoid contact with skin or eyes.

**Section 9 – Physical Data**

Odor:	Slight chemical aromatic	Melting Point:	N/A
Physical State:	Liquid.	Flash Point:	>90 DEG C
Color:	Clear yellow	Specific Gravity:	
Bulk Density:	0.88-0.92 g/ml	pH:	5.5-6.5
Vapor Pressure:	N/A	Water Solubility:	Soluble.
Viscosity:	N/A	Refractive Index:	N/A

**Section 10 – Toxicity**

EPA Toxicity Category:	“Caution” label required	Oral LD <sub>50</sub> :	>5000 mg/kg
Skin Contact:	Irritant.	Dermal LD <sub>50</sub> :	>2000 mg/kg
Eye Contact:	Irritant.	Inhalation LC <sub>50</sub> :	>10 mg/kg
HMIS/NFPA Classification:	Fire - 2      Health - 0 Reactivity - 0      Special - none	Fire - 2      Health - 0 Reactivity - 0      Special - none	
Other Comments:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.		

**Section 11 – Ecological Data**

Aquatic:	Not established.
Avian:	Not established.
Bioaccumulation:	None known.

**Section 12 – Transportation**

DOT:	Not regulated.
IATA:	Not regulated.
IMDG:	Not regulated.
Federal Motor Carrier Classification:	Insecticide, Liquid, Other Than Agriculture, N.O.I.B.N.

### Section 13 – Regulatory

Section 302/TPQ: (emergency planning)	Contains no components listed under section 302.
Section 304/EHS RQ: (release notification)	Contains no components listed under section 304.
CERCLA RQ: (release notification)	Not regulated by CERCLA.
Section 311/Tier II: (MSDS submission)	Acute health hazard, fire hazard.
Section 313/TRI Chemicals:	Glycol Ethers, Not more than 2.10% by weight. CAS – Not Listed.
RCRA Haz-Waste Code(s):	None.
CAA TQ: (air emissions)	None.

### Section 14 – Other

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

**The information provided on this Material Safety Data Sheet is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Control Solutions, Inc. The data on this sheet relates only to the specific material designated herein. Control Solutions, Inc. assumes no legal responsibility for the accuracy or completeness of this data, nor for use or reliance upon this data.**



# PIVOT® 10

## IGR Concentrate

***PIVOT 10 functions to stop the reproduction cycle and provide control of Fleas, Stored Product Pests, Listed Roaches, Crickets, Litter Beetles, and Flying Insects.***

#### Active Ingredient:

2-[1-Methyl-2-(4-phenoxyphenoxy)ethoxy] pyridine [Pyriproxyfen].....	10.00%
Other Ingredients.....	90.00%
Total .....	100.00%

## KEEP OUT OF REACH OF CHILDREN

# CAUTION

EPA Reg. No. 53883-280

EPA Est. No. 53883-TX-002

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

#### FIRST AID

**IF IN 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 eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** 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.

**IF SWALLOWED:** 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** 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 TO PHYSICIAN:** Contains Petroleum Distillate. Vomiting may cause aspiration pneumonia. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

Causes moderate 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. Do not induce vomiting because of aspiration pneumonia hazard. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

Cover or remove all food and food processing surfaces. Thoroughly wash all food processing surfaces before reuse. After spraying in bakeries, meat packing plants, food processing plants, etc., all benches, shelving, equipment, etc. where exposed food will be handled must be washed with an effective compound followed by a potable water rinse to remove all traces of contamination. Food processing operations do not have to be stopped while applying a wet spray with care and in accordance with the directions and cautions above in those establishments which do NOT operate under Federal meat, poultry, shell egg grading and egg products inspection program.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ALL DIRECTIONS COMPLETELY BEFORE USE.

For use in Commercial, Residential and Agricultural settings, including: Tobacco Plants and Warehouses, Manufacturing Plants, Commercial and Industrial Buildings, Transportation Equipment such as Automobiles, Boxcars, Buses, Boats, Trucks, Railcars, Ship Cargo Holds, Food and Non-food areas of Restaurants, Food Processing Plants, Food Warehouses, Grocery Stores and Supermarkets, Schools, Office Buildings, Apartments, Hotels and Motels, Hospitals, and Homes, outside on Lawns and Building Perimeters, and in and around Livestock Housing including Poultry Housing, Dairies, Kennels and Feedlots.

#### PRODUCT INFORMATION

**PIVOT 10** inhibits the typical development and ability of immature insects from reaching adulthood. **PIVOT 10** use can limit insect reproduction by causing adult insect sterilization, reduced egg production, behavior modifications, deformed insects and death. **PIVOT 10** may be used in an Integrated Pest Management (IPM) program to help in the prevention of insect resistance.

#### PRECAUTIONS:

- Do not use this product in or on electrical equipment due to possibility of shock hazard.
- Do not wet carpet, draperies and furniture. **STAINING:** Before using **PIVOT 10**, test the spray solution in a hidden area before use. As with other products, some fibers or surfaces (such as vinyl siding) may be affected by an application of this, or any liquid product.
- Before use in commercial or residential food areas, refer to the Food Handling Establishment section of the label.

Remove patients in hospital, nursing homes, or any rooms before treating. If application is done as a surface spray or crack and crevice application, patients may re-enter once the spray has dried. If application is a ULV Fog or space spray, patients may return to the room after it has been thoroughly ventilated.

- In institutions (including libraries, sports facilities, etc.) applications may be made while the facility is in use, provided treatment is not made in the immediate area where people are present.

#### MIXING INSTRUCTIONS

Mix **PIVOT 10** with water and apply with suitable equipment capable of producing a coarse wet surface spray. Partly fill the sprayer with water, then add the required amount of concentrate in sprayer, agitate and fill to final volume. Agitate before each spray.

Malathion and Vapona are antagonistic to Pyriproxyfen; mixing these products is not recommended.

**Tank Mixing:** Tank mix **PIVOT 10** with other registered pest control products, if allowed by product labeling. Apply as directed using the label instructions that are consistent with each product. Follow the most restrictive language and precautions of the mixed products. Follow the mixing order below:

- Add the tank mix partner.
- Add the proper volume of water, agitate and confirm the tank mix partner is in suspension.
- Add the specified amount of **PIVOT 10** and confirm there is a good mixture.

If any compatibility concerns exist, do a small scale mixture prior to a full tank mix.

#### APPLICATION INSTRUCTIONS

**PIVOT 10** may be applied both indoors and outdoors as a general surface spray, ULV/fog or space spray application, spot treatment or crack and crevice application. Application may be made using power sprayers, hand pump sprayers, void injectors, in carpet shampoo, using a paintbrush, roller, professional foam applicator, or similar device.

**SURFACE APPLICATIONS:** Diluted spray may be applied as a spot treatment, broadcast surface application or crack and crevice spray. Apply spray solution to areas where conditions support insect populations and reproduction.

**ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION:** **PIVOT 10** may be applied as a fog or an ultra-low volume (ULV) application with equipment such as Foggers, ULV equipment, mechanical misting sprayers or aerosol generators. Follow the equipment manufacturer's solution preparation instructions to prepare the fogging solution.

For fogging applications, **PIVOT 10** may be diluted with water or an approved petroleum distillate. Apply at a rate of 1 mL of **PIVOT 10** per 1,000 cubic feet of space (28 m<sup>3</sup>) to be treated. Remove all persons from the area to be treated. Close area to be treated. Shut off ventilation systems. Apply the product in the air and direct fog or mist toward all areas that may harbor target pests. After treatment, leave the room closed for 30 minutes or longer, as recommended by the labels of other products that may be tank mixed with **PIVOT 10**. Do not remain in treated area after fogging application is completed. Ventilate before re-entry.

**To Treat Voids in Equipment and Structures with ULV and Fog injection systems (void injectors):**

Apply to harborage sites in wall voids and other inaccessible spaces in equipment and structures using injection equipment designed for deep void ULV (Ultra-Low Volume) applications. Follow the injection equipment manufacturer's recommendations for the proper set up and air pressures. Place the applicator tip at or into the void space or crack and crevice to be treated. Apply in short bursts while keeping the tip in position. Allow the air stream to push the material deep into the area. For applications along baseboards, trim, molding, etc., move applicator tip along the crevice to be treated, applying a constant burst of material. Move the tip at a steady rate of one foot (30 cm) per second. Avoid applying to the point of runoff or drip. Ventilate area thoroughly before re-entry.

#### FOOD HANDLING ESTABLISHMENT APPLICATIONS

**PIVOT 10** may be applied as a general surface spray, space spray, spot and/or crack and crevice treatment in both food and non-food areas of food handling establishments where food and food products are held, processed, prepared and served. It also includes areas where food items are: received, prepared, packaged, and stored, as well as enclosed food processing systems (mills, dairies, etc.). Before application, remove or cover all food items in area to be treated. Do not apply directly to food or food-handling surfaces. In the home, all food-processing surfaces and utensils must be covered during treatment or thoroughly washed before use. Food contact surfaces must be thoroughly washed with an effective cleaning compound and rinsed with potable water after use of the product.

#### Spot or Crack and Crevice Application

Spot and/or crack and crevice treatment may be used while the facility is in operation, provided exposed food is covered or removed from the area being treated prior to application.

#### Space Spray and Surface Application

Space and surface application may be used only when the facility is not in operation provided exposed food is covered or removed from the area being treated prior to application.

#### Pantry, Cabinets, Small Food Storage Areas

Apply as a surface spray, fog, crack and crevice spray, or spot treatment to pantry and cupboard shelves or other areas where food is stored. Prior to spraying, remove all food containers and foodstuffs. Do not replace food containers or foodstuffs until spray has dried.

#### Stored Food Warehouses

Apply **PIVOT 10** as a general surface spray, fog, spot, or crack and crevice treatment in warehouses where packaged food items are stored in such a way that direct contact with the foodstuff is not expected.

#### INTEGRATED PEST MANAGEMENT IN SCHOOLS

**PIVOT 10** may be used in Schools and Day Care Facilities. Unless it is an emergency situation, applications should be performed when only maintenance staff is present and the building is otherwise unoccupied. Do not apply to classrooms while in use. Vacate rooms prior to treatment. If application is a surface spray, spot or crack and crevice application, re-entry may occur once the spray has dried. If application is a ULV Fog or space spray, re-entry may occur after the treated area has been thoroughly ventilated. Always consult Federal, State and Local governing bodies to understand any and all requirements prior to application.

#### Rate Chart

Amount of <b>PIVOT 10</b> per gallon (3.8 L) of water to treat 1,500 sq. ft. (139 m <sup>2</sup> )	Amount of <b>PIVOT 10</b> per unit area	
	1,000 sq. ft. (93 m <sup>2</sup> )	1,500 sq. ft. (139 m <sup>2</sup> )
4 mL per gallon (3.8 L) (0.01%)	3 mL	4 mL
8 mL per gallon (3.8 L) (0.02%)	5.5 mL	8 mL
12 mL per gallon (3.8 L) (0.03%)	8 mL	12 mL

Alternate mixing Instructions for outdoor power spraying	
18 mL per 50 gallons (189 L) of water	0.001%
38 mL per 50 gallons (189 L) of water	0.002%
56 mL per 50 gallons (189 L) of water	0.003%

#### FOR INDOOR AND OUTDOOR CONTROL OF LISTED FLYING INSECTS SUCH AS MOTHS, MOSQUITOES, FLIES AND SMALL NUISANCE FLIES:

**PIVOT 10** is effective in not only decreasing the number of eggs laid by treated adults but it also reduces hatch rates and inhibits the development into normal adults. As a stand-alone treatment, **PIVOT 10** will reduce adult fly populations after 3-4 weeks. After thorough cleaning and sanitizing of the area, apply spray dilution to known and suspected breeding sites (such as moist areas with decaying organic matter), as well as areas where these insects are known to travel, rest, hide or harbor. Tank mix **PIVOT 10** with an adulticide to get immediate control of adult stages while inhibiting successful development of immature stage. Repeat applications at 2 to 4 week intervals, if necessary, depending upon the level of infestation. If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

**General Surface Application (Including Broadcast, Spot and Crack & Crevice):** Apply **PIVOT 10** as a surface application at the rate of 4 mL in one gallon (3.78 L) of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m<sup>2</sup>). Use up to 12 mL per 1,500 square feet (139 m<sup>2</sup>) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Apply solution as a coarse, wetting spray to breeding and harborage sites. For drains, apply dilution into and around the drain and catch basin area. When possible, treat vertical surfaces surrounding breeding sites, where small flies tend to alight.

**Space Spray, Void Injection, ULV and Foam Application:** Read and Follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. Apply **PIVOT 10** as a ULV or fogging treatment, alone or tank mixed with an adulticide. Apply at the rate of 1 mL of concentrate per 1,000 cu. ft. (28.3 m<sup>3</sup>) of space to be treated. Make application to areas where insects are known to travel, rest, hide or harbor.

**Foam Application:** For the control of Drain/Fruit Flies, combine **PIVOT 10** at the rate of 4 to 8 mL concentrate with one gallon of diluent. To convert this diluent to foam, add foaming agent at the manufacturer's recommended rate. Apply finished foam to areas of fly breeding such as drains, traps of sinks, bathtubs and in floor drains. For best results, foam should be applied thoroughly, ensuring all void areas and fly breeding material is treated. Follow the requirements of the foam equipment manufacturer.

**Outdoor Application:** Apply as a surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 4 mL in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,000 square feet (93 m<sup>2</sup>). Use up to 12 mL per 1,000 square feet (93 m<sup>2</sup>) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Alternate mixing directions for power spraying are to use 18 to 56 mL of concentrate per 50 gallons (189 L) of water. Apply to surfaces where insects breed, travel, rest, hide or harbor. Treat known and suspected breeding sites on, under and around exterior surfaces of buildings, walls, window frames, around garbage cans, eaves, cracks and crevices, porches, decks, gazebos, patios, carports, garages, stagnant water, moist/shaded areas, fence lines, and other areas where target insects are active or may be hiding. Outdoor applications on soil surfaces will provide residual IGR activity, depending upon soil type and weather conditions.

#### FOR INDOOR AND OUTDOOR CONTROL OF LISTED CRAWLING INSECTS SUCH AS FLEAS, TICKS, BEETLES AND OTHER LISTED INSECTS:

**PIVOT 10** reduces egg production, hatch and prevents the immature life stages of fleas, ticks, beetles and other crawling insects to develop into adult insects. Flea eggs and flea larvae that contact treated areas will not develop into adult fleas. Follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label when used in food areas.

#### PREVENTATIVE FLEA TREATMENT:

Use **PIVOT 10** as a preventative treatment prior to the flea season. Make application in areas where pets and other animals are known to frequent and where previous infestations have been known to occur. Indoor treatments of **PIVOT 10** provide up to 7 months of residual flea control. Apply as a surface application at the rate of 4 - 8 mL in one gallon (3.8 L) of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m<sup>2</sup>).

#### FOR ESTABLISHED INFESTATIONS:

**General Surface Application (Including Broadcast, Spot and Crack & Crevice):** Apply as a surface application at the rate of 4 mL in one gallon (3.8 L) of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m<sup>2</sup>). Use up to 12 mL per 1,500 square feet for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Treat all areas that may harbor target insects, such as carpets, furniture, pet sleeping areas and throw rugs. Treat under cushions of upholstered furniture. Use with an adulticide to get immediate control of adult insects. Do not allow children or pets to contact treated surfaces until spray has thoroughly dried.

**Application with Carpet Shampoo:** **PIVOT 10** may be combined with a liquid, non-heat extracting carpet shampoo application. Mix 4 mL of **PIVOT 10** per gallon (3.8 L) of diluted shampoo to be applied to carpet. Mix well and shampoo carpet as per instructions on the shampoo product label. Allow carpet to completely dry and vacuum thoroughly.

**For Use in Kennels and Doghouses:** Apply as a surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 4 mL in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m<sup>2</sup>). Use up to 12 mL per 1,500 square feet (139 m<sup>2</sup>) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Remove animals before spraying. Apply in and around buildings, resting areas, walls, floor, animal bedding and run areas. Animals may be returned to treated areas when spray has thoroughly dried.

**Space Spray, Void Injection ULV and Fog Application:** Read and follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION." To achieve uniform coverage, apply **PIVOT 10** as a ULV or fogging treatment, alone or tank mixed with an adulticide. Apply at the rate of [ML of concentrate per 1,000 cu. ft. (28 m<sup>3</sup>) of space to be treated. Direct application to areas where target insects are known to travel, rest, hide or harbor.

**Outdoor Application:** Apply as a surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 4 mL in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,000 square feet (93 m<sup>2</sup>). Use up to 12 mL per 1,000 square feet (93 m<sup>2</sup>) for insect populations that are difficult to control or in conditions that make it difficult to get control target pests. Alternate mixing directions for power spraying are to use 18 to 56 mL of concentrate per 50 gallons (189 L) of water. Remove animals before spraying. Apply to listed outdoor areas where target insects are suspected or known to breed, travel, rest, hide or harbor. To help prevent insect infestation of buildings: Treat building exteriors, foundations and soil or other substrate adjacent to buildings. Application on soil surfaces will provide 30-60 days of IGR activity, depending upon insect type, soil type and weather conditions.

#### FOR CONTROL OF LISTED COCKROACHES, CRICKETS:

**PIVOT 10** prevents nymphal cockroaches and crickets from developing into reproductive adults. **PIVOT 10** may be used with cockroach baits. One treatment works for 6 months against cockroach nymphs and crickets. If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

**General Surface Application (Including Broadcast, Spot and Crack & Crevice):** Apply as a surface application at the rate of 12 mL in one gallon of water to treat 1,500 square feet (139 m<sup>2</sup>). Apply diluted spray as a spot treatment, surface application and crack and crevice spray. Treat all areas where target insects are known or suspected to travel, rest, hide or harbor. Tank mix with an adulticide to provide immediate control of adult stages. Contact as many insects as possible with this spray. Special attention should be paid to hiding places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, and the inside of cabinets and closets

hitting insects with spray whenever possible. Repeat application in 6 months, or more frequently if necessary.

**Space Spray, Void Injection ULV and Fog Application:** Read and Follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. To achieve uniform coverage, apply **PIVOT 10** as a ULV or fogging treatment, alone or tank mixed with an adulticide. Apply at the rate of 1 mL of concentrate per 1,000 cu. ft. (28 m<sup>3</sup>) of space to be treated. Direct application to areas where insects are known to travel, rest, hide or harbor.

**Outdoor Application:** Apply as a surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 12 mL of concentrate in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m<sup>2</sup>). For building perimeter applications, apply in a band 2-6 feet (0.6 to 1.8 m) adjacent to and around the structure and apply to a height of 2-3 feet (0.6 to 0.9 m) on the foundation where pests may be active or may find entrance. Apply spray on, around and beneath window frames, doors, garage doors, patios, decks, turf, landscaping, compost areas, garbage areas and other areas where target insects travel, feed, rest, hide or harbor. Alternate mixing directions for outdoor power spraying are to use 56 mL of concentrate per 50 gallons (189 L) of water.

#### FOR CONTROL OF ANTS:

**General Surface Application Indoors:** **PIVOT 10** may be used as part of an integrated approach to control ants. Apply broadcast, spot or crack and crevice treatments of **PIVOT 10** at the rate of 12 mL diluted in water per 1,500 square feet (139 m<sup>2</sup>) to interior areas where ants are actively foraging and traveling. May be used in conjunction with baits and/or residual treatments. If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

**Outdoor Application:** Apply as an outdoor surface application (Including Broadcast, Spot and Crack & Crevice) at the rate of 12 mL of concentrate in one gallon of water (or sufficient volume of water to get adequate coverage) to treat 1,500 square feet (139 m<sup>2</sup>). Alternate mixing directions for outdoor power spraying are to use 56 mL of concentrate per 50 gallons (189 L) of water. For building perimeter applications, apply in a band 2-6 feet (0.6 to 1.8 m) adjacent to and around the structure and apply to a height of 2-3 feet (0.6 to 0.9 m) on the foundation where ants may travel or find entrance. Apply directly to known or suspected ant forage, trails and forage sites. Treat ant mounds or nests directly with a wetting spray. **PIVOT 10** may be used in a program with baits or in a tank mix combination with adulticide insecticide.

#### FOR CONTROL OF LISTED STORED PRODUCT PESTS:

(Including Indian Meal Moths, Rice Moths, Tobacco Moths, Red Flour Beetles, Confused Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Sawtooth Grain Beetles, Warehouse Beetles, Cigarette Beetles, Dermestid Beetles). If application is being made in food areas, read and follow the "FOOD HANDLING ESTABLISHMENT APPLICATIONS" instructions in this label.

**General Surface Application (Including Broadcast, Spot and Crack & Crevice):** Apply as a surface application at the rate of 8 mL in one gallon of water to treat 1,500 square feet (139 m<sup>2</sup>). Use up to 12 mL per 1,500 square feet (139 m<sup>2</sup>) for insect populations that are difficult to control or in conditions that make it difficult to get control of target pests. Apply diluted spray as a spot treatment, surface application and crack and crevice spray. Treat all areas where target insects are known or suspected to travel, rest, hide or harbor such as cracks and crevices in walls and floors, under and between pallets, areas at the base of machinery and equipment, under furniture, in mop and equipment closets, behind cabinets, behind and under refrigerators, sinks, stoves, drawers under shelves and racks, around pipes and openings in floors and walls, along baseboards, in wall voids, and other areas where insects seek harborage. Since **PIVOT 10** is stable and not volatile, spot and/or crack and crevice treatment may be used while a food processing facility is in operation, provided exposed food is covered or removed from the area being treated prior to application. Tank mix with an adulticide to provide immediate control of adult stages. Contact as many insects as possible. Repeat application in 6 months, or more frequently if necessary.

**Space Spray, Void Injection, ULV and Fog Application:** Read and follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. To achieve uniform coverage, apply **PIVOT 10** as a ULV or fogging treatment, alone or tank mixed with an adulticide. Apply at the rate of 1 mL of concentrate per 1,000 cu. ft. (28 m<sup>3</sup>) of space to be treated. Direct application to areas where insects are known to travel, rest, hide or harbor.

### USES IN LIVESTOCK, POULTRY AND ANIMAL PRODUCTION

#### FOR CONTROL OF INSECT PESTS IN AND AROUND LIVESTOCK, POULTRY AND OTHER ANIMAL HOUSING AND FACILITIES (Including Kennels, Animal Shelters, Stables, Dairies and Zoos):

**PIVOT 10** may be used by pest control professionals and livestock producers (including poultry) in, on and around animal housing and facilities to control listed flying insect pests. **PIVOT 10** disrupts the cycle of insect reproduction and can be part of an IPM program, and used to prevent or control resistant insect populations, such as Tempo resistant flies. Used as directed, **PIVOT 10** will not harm beneficial insects such as predatory wasps.

Apply as a spot treatment, general surface broadcast treatment, ULV fog, spot or crack and crevice application to interior and exterior areas where insect pests collect, travel, rest, hide, harbor or breed. Apply when animals are not in the immediate area being treated. Animals may reenter treated area once spray solution has thoroughly dried. Do not contaminate food, feed, potable water or watering equipment.

#### RATES TO CONTROL MOSQUITOES AND OTHER FLYING INSECTS:

**PIVOT 10** is effective on both adult and juvenile insect stages. It decreases the number of eggs laid by treated adults and reduces hatch rates while inhibiting the development of larvae (maggot) into normal adults. Treatment with **PIVOT 10** will result in reduced adult fly populations after 3-4 weeks. **PIVOT 10** may be tank mixed with an adulticide for quicker results. Apply alone or tank mixed with an adulticide at the rate of 4 mL per 1,500 square feet (139 m<sup>2</sup>) of surface area in sufficient volume of water to thoroughly wet the surface, although not to the point that runoff occurs. Use up to 12 mL of concentrate per 1,500 square feet (139 m<sup>2</sup>) of surface for insect populations that are difficult to control or in conditions that make it difficult to achieve desired results.

#### RATES TO CONTROL LISTED CRAWLING INSECTS:

Apply **PIVOT 10** alone or tank mixed with an adulticide at the rate of 4 mL per 1,500 square feet (139 m<sup>2</sup>) of surface in sufficient volume of water to thoroughly wet the surface, although not to the point that runoff occurs. Use up to 12 mL of concentrate per 1,500 square feet (139 m<sup>2</sup>) of surface for insect populations that are difficult to control or in conditions that make it difficult to achieve desired results.

**Space Spray, Void Injection, ULV and Fog Application:** Read and Follow the "ULV AND FOGGING APPLICATION INSTRUCTIONS, INCLUDING SPACE SPRAY AND VOID INJECTION" in the General Application Instructions section of this label. **PIVOT 10** may be applied with a ULV generator or fogger at a rate of 1 mL per 1,000 cubic feet. If used alone, dilute concentrate with water at the rate of 1 mL of concentrate with one fl. oz. (30 mL) of water, and fog solution at a rate of 1 fl. oz. (30 mL) per 1,000 cubic feet (28 m<sup>3</sup>). When tank mixing with a pyrethrum fogging concentrate, mix **PIVOT 10** directly with the pyrethrum fogging concentrate solution. Do not remain in treated area after fogging. Keep facility closed for 1 hour and thoroughly ventilate prior to re-entry.

#### INTERIOR AND PERIMETER APPLICATION DIRECTIONS:

Treat all interior areas where crawling insects may travel, rest, hide, harbor or breed, including vertical walls, ceilings, posts, pipes, conduit, around doors and windows, cages, stalls, stanchions, floors, under watering equipment and feeders, cracks and crevices along floors, animal bedding, manure and other known or potential breeding sites. For best results clean facilities prior to treatment and make exterior perimeter treatments. Apply solution to exterior perimeter of facility in a uniform band at least 1 foot (30 cm) up and 6 to 10 feet (1.6 to 3.0 m) out from foundation. Apply around the exterior surfaces of doors and windows, overhead areas and other potential points of harborage or entry. If there are raised floors with soil or debris beneath them, be sure to treat the area beneath the floor.

#### EXTERIOR AND OUTDOOR APPLICATION DIRECTIONS:

Treat areas known to be breeding sites such as garbage bins or refuse piles, around grain or feed storage facilities, soil and vegetation in fence lines, compost piles, manure piles, beneath watering



equipment or feeders, in, around and under calf hutches, in and beneath outdoor cages, in corrals, farmyards and feed lots.

Reapply every 30 days, or when target insect populations return to economic threshold levels.

**FOR CONTROL OF LITTER BEETLES (Such as Darkling, Hide and Carrion Beetles):**

**PIVOT 10** can be applied to litter, such as in poultry houses infested with litter beetles. When used as directed, **PIVOT 10** will not harm beneficial insects in animal litter or bedding, such as predatory wasps. Apply **PIVOT 10** to litter at the rate of 4 mL of **PIVOT 10** per 1,500 square feet (139 m<sup>2</sup>) of surface in sufficient volume of water to thoroughly wet the surface, although not to the point that runoff occurs. Use up to 12 mL of concentrate per 1,500 square feet (139 m<sup>2</sup>) of surface for insect populations that are difficult to control or in conditions that make it difficult to achieve desired results.

For effective prevention of beetle larvae in litter, remove animals from immediate treatment area and old litter. Surface treatments immediately after animals are removed and again just prior to new animal placement are most effective. Adult egg-laying beetles can be killed with an adulticide such as CYZMIC CS, OPTIMATE CS or PYROFOS CS Microencapsulated insecticides. Application of adulticide to walls and floors at cleanout, before reintroduction of animals, will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls and around feeders.

Apply **PIVOT 10** uniformly to floor area and to walls, posts, and cage framing (birds grown in cages only). Application should also be made into cracks and crevices around insulation. Reapply after each grow-out or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply **PIVOT 10** or adulticide insecticides, or both, in a uniform band at least 1 foot (30 cm) up and 6 to 10 feet (1.8 to 3.0 m) out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

**FOR CONTROL OF MOSQUITO LARVA AT RESIDENTIAL AND COMMERCIAL SITES**

Not for use in natural holding waters or active waterways.

Not for use as a wide-area mosquito control at these sites. Do not apply using truck mounted equipment or by aerial application.

Active only on the immature life stages of mosquitoes. Tank mix or use with an adulticide for immediate kill of biting (adult) mosquitoes.

**RESIDENTIAL AND COMMERCIAL SITES:**

Apply using a backpack sprayer, hand-held ULV cold fogger, compressed air sprayer, power sprayer or hand-held sprayer at a rate of 4 - 8 mL of **PIVOT 10** per 1,500 sq. ft. (139 m<sup>2</sup>) in sufficient amount of water to get good coverage of target site. Use up to 12 mL per 1,500 square feet (139 m<sup>2</sup>) for mosquito populations that are difficult to control or in conditions that make it difficult to get control target pests. Alternate mixing instructions are 16-48 mL of concentrate per 50 gallons (189 L) of water. Treat moist, shady areas where mosquitoes rest, harbor or breed, such as trees, shrubs, landscape plants, tall grass or plant foliage, standing water, gutters, drains, under decks, in-ground sprinkler heads, pet areas, fountains, birdbaths, landscape timbers, rocks, pavers, planters and fences. Tank mix **PIVOT 10** with an adulticide to get immediate control of the biting adult stages, while inhibiting successful development of immature stages. Monitor mosquito emergence and re-apply every 28 days, or when mosquito populations reach treatment threshold levels.

**USE SITES: For indoor and outdoor use in areas such as:**

Agricultural Buildings	Buses	Cupboards
Aircraft (cargo areas only)	Cabinets	Dairies
Animal Quarters	Cabins	Day Care Centers
Animal Housing Facilities	Cafeterias	Decks
Animal Research Facilities	Calf Hutches	Delicatessens
Apartment Buildings	Campers	Dens
Apartments	Campsites	Detention Centers
Appliances	Candy Plants	Dining Halls
Assisted Living Facilities	Meat & Produce Canneries	Dog Houses
Atriums	Cargo Holds	Dog Kennels
Attics	Carpets	Dog Runs
Automobiles	Casinos	Dormitories
Backyards	Cereal Processing Facilities	Drains
Bakeries	Cemeteries	Draperies
Barns	Chests	Dressers
Bathrooms	Child Care Centers	Drive-Ins
Basements	Closed Porches	Drugstores
Bed Frames	Closets	Egg Production Facilities
Bedrooms	Clothes Storage	Equipment
Boats	Coffee Houses	Equipment Voids
Boiler Rooms	Colleges	Fabric Storage Areas
Bookshelves	Commercial Buildings	Factories
Bottling Facilities	Compost	Farm Buildings
Boxcars	Composting Sites	Farms
Box Springs	Condominiums	Farmyards
Breweries	Convenience Stores	Feedlots
Building Exteriors	Crawl Spaces	Floors
Building Foundations	Crematoriums	Flour Mills
Building Perimeters		Food Handling Areas
Food Packing Plants	Mausoleums	Ship Cargo Holds
Food Processing Plants	Meat Processing Plants	Shutters
Food Storage Areas	Mess Halls	Side Yards
Food Warehouses	Mobile Canteens	Soil
Foundations	Mobile Homes	Solariums
Funeral Parlors	Morgues	Spas
Furniture	Mortuaries	Sports Stadiums
Garages	Motels	Stored Food Areas
Garbage Areas	Mulch	Stored Food Warehouses
Garbage Cans	Mattresses	Stores
Gas Stations	Nursing Homes	Storage Areas
Gazebos	Office Buildings	Stockyards
Grain Storage Facilities	Offices	Sun Rooms
Grass	Other Public Buildings	Sun Porches
Grocery Stores	Outdoor Eating Establishments	Supermarkets
Headboards	Pantries	Swine Production Facilities
Health Clubs	Parks	Taverns
Homes	Patios	Theaters
Hospices	Pet Areas	Tobacco Plants and Warehouses
Hospitals	Pet Bedding	Town Houses
Hotels	Pet Carriers	Trailers
Indoor Eating Establishments	Pet Grooming Parlors	Trains
Industrial Buildings	Pet Sleeping Areas	Transportation Vehicles

Industrial Plants	Pet Stores	Tree Houses
Institutional Dining Areas	Pet Quarters	Trucks
Institutional Buildings	Play Houses	Universities
Institutions	Play Rooms	Upholstered Furniture
Jails	Porches	Utility Room Indoor
Kennels	Poultry Houses	Utility Room Outdoor
Kitchens	Prisons	Vending Machines
Laboratories	Public Buildings	Verandas
Lanais	Railroad Cars	Veterinaries
Landscape Plants	Recreational Areas Indoors	Warehouses
Landscaping	Recreational Areas Outdoors	Washrooms
Lawns	Recreation Vehicles	Yards
Libraries	Residential Homes	Zoos
Livestock Housing	Restaurants	
Livestock Production Facilities	Rooms	
Living Rooms	Rugs	
Locker Rooms	Schools	
Manufacturing Plants	Septic Tanks	
Marine Vessels	Ships	
Mass Merchandising Stores		

**PIVOT 10** has shown to be effective against pests of the orders Acari, Anoplura, Blattodea, Coleoptera, Dermaptera, Diptera, Heteroptera, Hymenoptera, Lepidoptera, Orthoptera, Psocoptera, Siphonaptera, as well as other pests noted below:

Almond Moths	Drain Flies	Madeira Cockroaches
American Cockroaches	Drugstore Beetles	Mealworms
Angoumois Grain Moths	Elm Leaf Beetles	Merchant Grain beetles
Ants	Face Flies	Midges
Asian Cockroaches	Field Cockroaches	Mosquitoes
Asian Lady Beetles	Filter Flies	Moths
Australian Cockroach Beetles	Fleas	Pennsylvania Wood Cockroaches
Black Carpet Beetles	Florida Stinkroach	Psocids
Booklice	Fruit Flies	Red Flour Beetles
Bottle Flies	Fungus Gnats	Rice Moths
Boxelder Bugs	German Cockroaches	Rice Weevil
Brown Cockroaches	Granary Weevils	Saw-tooth Grain
Brownbanded Cockroaches	Ground Beetles	Sewage Flies
Cat Fleas	Hide Beetles	Silverfish
Cheese Skippers	Horntails	Small Dung Flies
Cigarette Beetles	Horn Flies	Smoky Brown Cockroaches
Cinereous Cockroaches	House Flies	Stable Flies
Clothes Moths	Indian Meal Moths	Surinam Cockroaches
Cockroaches	Khapra Beetles	
Confused Flour Beetles	Lesser Grain Borers	Tobacco Moths
Copra Beetles	Lone Star Tick	Turkestan
Crickets	Ticks	Vinegar Flies
Darkling Beetles	Litter Beetles	Warehouse Beetles

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry place. Always store pesticides in the original container. Store away from food and pet food.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container.

**If empty:** Place in trash or offer for recycling if available.

**If partially filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## WARRANTY STATEMENT

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Control Solutions, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, Control Solutions, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Control Solutions, Inc., and Buyer and User assume the risk of any such use. CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, IT IS **CONTROL SOLUTIONS INC., AND SELLERS INTENTION THAT** in no event shall Control Solutions or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CONTROL SOLUTIONS, INC., AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CONTROL SOLUTIONS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

To the extent consistent with applicable law, Control Solutions, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Control Solutions, Inc.

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME:** PIVOT® 10

**PRODUCT DESCRIPTION:** Emulsifiable insecticide concentrate containing insect growth regulator.

**CHEMICAL NAME:** Mixture

**MANUFACTURER:** Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

**TELEPHONE:** (281) 892-2500

**24 HOUR EMERGENCY PHONE (CHEMTREC):** (800)-424-9300

**(ALL OTHER AREAS):** (703) 527-3887

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EINECS	EXPOSURE LIMITS	% BY WT.
Pyriproxyfen	095737-68-1	none	Not established	10.00

[2-{1 -Methyl-2-(4-phenoxyphenoxy)ethoxy} pyridine]

PEL = Permissible Exposure Limits.

TWA = Time Weighted Average (8 hr).

TLV = Threshold Limit Value.

STEL = Short Term Exposure Limit (15 min.).

## 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

**WARNING** **OSHA COMBUSTIBLE Liquid.** Avoid contact with eyes, skin and  
EYES: Causes temporary irritation, tearing and blurred vision.

SKIN: May cause slight skin irritation.

**INGESTION:** Harmful if swallowed. Can cause stomach irritation, resulting in nausea, cramps and vomiting. Can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination.

**INHALATION:** Harmful if inhaled. Excessive inhalation can cause mild nasal and respiratory irritation, nausea and nervous disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.

**CHRONIC EFFECTS:** Not established

**SAFETY:** ALWAYS take prudent precautions to avoid contact with skin, eyes and clothing.

See TOXICOLOGICAL INFORMATION (section 11)

# MATERIAL SAFETY DATA SHEET

## 4. FIRST-AID MEASURES

### **FIRST AID PROCEDURES:**

- 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 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.
- INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- INGESTION:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIANS:** This product may pose an aspiration pneumonia hazard.

## 5. FIRE FIGHTING MEASURES

### **FLAMMABLE PROPERTIES:**

**FLASH POINT:** >90°C

#### **FLAMMABLE LIMITS:**

LOWER FLAMMABLE LIMIT: not established.

UPPER FLAMMABLE LIMIT: not established.

**AUTOIGNITION TEMPERATURE:** not established.

**HAZARDOUS COMBUSTION PRODUCTS:** Thermal Decomposition will produce oxides of carbon

**EXTINGUISHING MEDIA:** Foam, carbon dioxide, or dry chemical.

**FIRE FIGHTING INSTRUCTIONS:** Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water spray. Contain the run-off, if possible, for proper disposal.

## 6. ACCIDENTAL RELEASE MEASURES:

**SMALL SPILL:** Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

**LARGE SPILL:** Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

**WASTE DISPOSAL METHOD:** Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.



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## **7. HANDLING AND STORAGE**

**HANDLING:** Take prudent precautions to avoid contact with skin, eyes and clothing.

Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product. Do not contaminate water, feed or food by storage, handling or disposal. Read and observe all precautions and instructions on the label

**STORAGE:** Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, ignition sources and strong oxidizers. Emptied containers may retain product residues.

**WORK HYGIENIC PRACTICES:** DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA!

Wash Promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

**RESPIRATORY PROTECTION:** Wear a NIOSH approved organic vapor respirator in absence of proper mechanical ventilation.

**SKIN PROTECTION:** Take prudent precautions to avoid contact with skin and clothing.

**EYE PROTECTION:** Take prudent precautions to avoid contact with eyes.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>COLOR:</b>	Clear yellowish
<b>ODOR:</b>	Mild sweet odor
<b>PHYSICAL STATE:</b>	Liquid
<b>VAPOR PRESSURE:</b>	Not established
<b>VAPOR DENSITY:</b>	Not established
<b>BOILING POINT:</b>	Not established
<b>MELTING POINT:</b>	Not established
<b>SOLUBILITY IN WATER:</b>	Not established
<b>SPECIFIC GRAVITY:</b>	0.91-0.95 g/ml
<b>pH:</b>	5-7
<b>VISCOSITY:</b>	18 cps @ 21.5°C

## **10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable

**INCOMPATIBILITY:** Strong acidic or alkaline materials. Compounds containing a methoxy group.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not applicable.

**HAZARDOUS POLYMERIZATION:** Will not occur.

# MATERIAL SAFETY DATA SHEET

## 11. TOXICOLOGICAL INFORMATION

### ACUTE STUDIES:

#### INGESTION:

Acute Oral LD<sub>50</sub> (rat) = 5.04 g/kg

#### SKIN:

Acute Dermal LD<sub>50</sub> (rabbit) >2.0 g/kg

Primary skin irritation (rabbit): Irritation index = 0.91

Dermal Sensitization (guinea pig): Not a sensitizer

#### INHALATION:

Acute Inhalation LC<sub>50</sub> (rat) (4 hours) > 11.07 mg/l

#### EYE:

Primary eye irritation (rabbit): Conjunctival irritation clearing in 7 days

### SUBCHRONIC:

DERMAL IRRITATION: Not determined

ORAL TOXICITY STUDY: Not determined

### CHRONIC:

CARCINOGENICITY: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

ONCOGENICITY: Not determined

REPRODUCTIVE: Not determined

TERATOGENICITY: Not determined

MUTAGENICITY: Not determined

## 12. ECOLOGICAL INFORMATION

### PERSISTENCE IN THE ENVIRONMENT

BIODEGRADATION: Not available

CHEMICAL DEGRADATION: Not available

TOXIC EFFECTS ON ORGANISMS: Care should be taken to avoid contamination of the aquatic environment.

FISH: LC<sub>50</sub> Not available

BIRD: LC<sub>50</sub> Not available

TOXICITY TO USEFUL INSECTS: Not available

## 13. DISPOSAL CONSIDERATIONS

### RCRA/CERCLA HAZARDOUS WASTE:

INGREDIENT RCRA ID#: CERCLA RQ-VALUE

NONE

DISPOSAL METHOD: This product should be disposed of according to local, state and federal regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains Do not mix with other waste materials.

# MATERIAL SAFETY DATA SHEET

## 14. TRANSPORT INFORMATION

### **U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:**

**HAZARDOUS MATERIALS DESCRIPTION:** Non-hazardous

**HAZARD CLASS:**

**IDENTIFICATION NUMBER (UN or NA):**

**PACKING GROUP:**

### **INTERNATIONAL TRANSPORTATION REGULATIONS:**

**ICAO / IATA DESCRIPTION:** Not hazardous

## 15. REGULATORY INFORMATION

### **U.S. FEDERAL REGULATIONS:**

#### **SARA TITLE III:**

**SECTION 302:** Not listed

**SECTION 313:** This product contains the following toxic chemicals of the subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

<b>CAS#:</b>	<b>CHEMICAL NAME:</b>	<b>De Minimis</b>	<b>% BY WEIGHT:</b>
	None below reporting limits		

### **STATE REGULATIONS:**

**VOLATILE ORGANIC COMPOUNDS (VOC):** This product does not exceed 80% VOC's by weight.

## 16. OTHER INFORMATION

### **HMIS RATINGS:**

We assign HMIS ratings to this product based on the hazards of its ingredient(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in sections 7 and 8 of this MSDS.

<b>HMIS RATINGS:</b> Health	2
Flammability	2
Reactivity	1

*The data contained herein is based on information currently available and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which Control Solutions, Inc. assumes legal responsibility.*







