



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

Registration  
 Amendment  
 Other

EPA Identifier Number

265254

**Application for Pesticide - Section I**

1. Company/Product Number <b>239-2595</b>	2. EPA Product Manager <b>Tina Levine</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>ISOTOX Insect Killer Formula IV</b>	PM# <b>14</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>The SOLARIS Group of Monsanto P. O. Box 5006 San Ramon, CA 94583-0906</b> <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(ii), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**NOTIFICATION**  
**JUN 30 1998**

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification: Add front panel claims; delete chemical name of acephate and fenbutatin-oxide according to PR Notice 97-5; add Product Facts Table; add Dial 'N Spray instructions; delete redundant text; revising mixing and use directions; and add new emergency telephone number and web site. Added text is double underlined; deleted text is stricken out. This Notification is in compliance with 95-2.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product			<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	<input type="checkbox"/> Other _____	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name <b>Frank Kamienski</b>	Title <b>Registration Specialist</b>	Telephone No. (Include Area Code) <b>925/355-3335</b>
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		F. Write Application Received (Stamp)
2. Signature <i>Frank Kamienski</i>	3. Title <b>Registration Specialist</b>	
4. Typed Name <b>Frank Kamienski</b>	5. Date <b>June 24, 1998</b>	

2 4 9

**ORTHO® ISOTOX® Insect Killer Formula IV, EPA Reg. No. 239-2595**

**(ICON) OUTDOOR USE ONLY**

Makes up to 32 Gallons Spray {Quart size}

Makes up to 16 Gallons Spray {Pint size}

**[5/31/96]: Concentrate**

**CONTROLS/KILLS** Aphids, Mites, Thrips, Mealybugs, Whiteflies, Scales and/& many other [listed] insects/pests on Roses, Flowers, Ornamentals, Shrubs, and Trees.

**ALSO CONTROLS/KILLS** JAPANESE BEETLES

**CONTAINS ORTHENE® SYSTEMIC INSECTICIDE AND VENDEX® MITICIDE**

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

See back panel booklet for additional precautionary statements

**Active Ingredients**

Acephate (O,S-Dimethyl acetylphosphoramidothioate).....	8.0%
Fenbutatin-oxide Hexakis (2-Methyl-2-phenylpropyl)-distannoxane.....	0.5%
Other Inert Ingredients .....	91.5%

**NET CONTENTS** 32 FL OZ (1 CT) 946 mL  
16 FL OZ (1 PT) 473 mL

**NOTIFICATION**

**JUN 30 1998**



[The following copy is for fix-a-form booklet type labels which consumers can open, read, and reseal easily at retail as well as at time of use]

[Dial 'n Spray illustration]. Easy to apply with an Ortho Dial 'n Spray®, hose-end or tank sprayer.

<b>Product Facts</b>	
Makes up to 16 gallons spray (pint)/32 gallons spray (quart)	
<b>KILLS</b>	Aphids, Mites, Japanese Beetles, Leafminers,
<b>INSECTS/</b>	Thrips, Mealybugs, Whiteflies, Scales, Other
<b>PESTS</b>	Beetles & Caterpillars
<b>WHERE</b>	Roses, Flowers, Shrubs & Trees
<b>TO USE</b>	
<b>AMOUNT TO USE</b>	
<ul style="list-style-type: none"> <li>• Aphids &amp; Grasshoppers: 2 Tbs (1 fl oz) / gal water</li> <li>• Japanese Beetles: 4 Tbs (2 fl oz) / gal water</li> <li>• Other Listed Insects/Pests: 3 Tbs (1½ fl oz) / gal water</li> </ul>	
<p>[phone icon] Questions, Comments or Medical Information call 1-800-225-2883      <a href="http://www.ortho.com">www.ortho.com</a></p>	

Do not apply to plants to be used for food or feed.

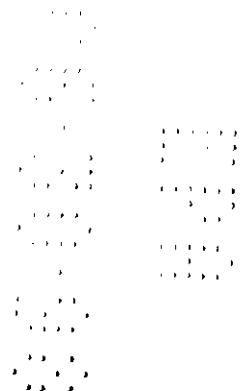
**CONTROLS/KILLS** Aphids, Mites, Thrips, Mealybugs, Whiteflies, Scales and many other listed pests on Roses, Flowers, Ornamentals, Shrubs, and Trees. Also controls Japanese beetles.

Do not apply to plants to be used for food or feed.

**Peel open for use directions and further information.**

**DANGER:** Causes irreversible eye damage and skin irritation. May be harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. SEE ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS INSIDE BOOKLET

**PULL HERE TO OPEN LABEL. PRESS TO RESEAL. OPEN Resealable label for Directions & Precautions.**



☎ Medical Information call 1-800-454-2333  
Product Information call 1-800-225-2883

[or]

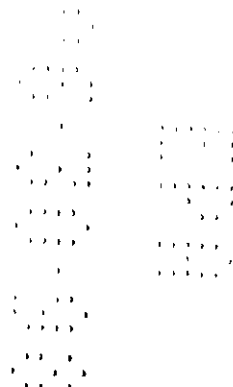
- ☎ Questions, Comments, or Medical Information
- ☎ call 1-800-225-2883 www.ortho.com

ORTHO®, ISOTOX®, ORTHENE® Trademarks of Monsanto Company  
DACONIL 2787® Trademark of ISK Biosciences Corporation Fermenta-Plant Protection Co. for Chlorothalonil Fungicide.

VENDEX® Trademark of E.I. du Pont de Nemours & Co.  
FUNGINEX® Trademark of American Cyanamid Company

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Manufactured for  
**The SOLARIS Group of**  
Monsanto Company  
P.O. Box 5008  
San Ramon CA 94583-0808  
Form 0-277-01 RS850  
Product 5616  
EPA Reg. No. 239-2595  
EPA Est. 239-IA-3<sup>1</sup>, 58996-MO-1<sup>A</sup>  
Superscript is first letter of lot number  
Made in USA



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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

Specially Formulated for Residential Use

~~How to use: Mix and spray entire plant, covering upper and lower leaf surfaces. May be applied with an ORTHO hose-end sprayer, or tank-type sprayer. Make new dilution for each use.~~

This product is for outdoor use only by home gardeners. It has not been tested on rare, unusual varieties; therefore, when these plants are present, it is advisable to test on a few plants before spraying large numbers. Do not apply to plants to be used for food or feed. Note: Do not apply to American Elm, Flowering Crabapple, Sugar Maple, Red Maple, Redbud, Begonia or and Weigelia as foliage injury may occur.

**MIXING INSTRUCTIONS**

**Aphids & Grasshoppers**

Amount to Use: 2 Tbs (1 fl oz) per gal of water. Ortho Dial 'n Spray® setting: 1 oz.

**Japanese Beetles**

Amount to Use: 4 Tbs (2 fl oz) per gal of water. Ortho Dial 'n Spray® setting: 2 oz.

**Other Listed Insects/Pests**

Amount to Use: 3 Tbs (1 1/2 fl oz) per gal of water. Ortho Dial 'n Spray® setting: 1 1/2 oz.

[Dial 'n Spray Illustration]: When using Ortho Dial 'n Spray®: Set dial to the setting indicated above. Pour product into sprayer to fill jar one-quarter to one-half full. DO NOT add water. After spraying, unused product can be poured back into its original container.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Clean sprayer after use by flushing with water.

~~Rate to apply Aphids and Grasshoppers on Roses, Flowers, Ornamentals, Shrubs and Trees: Apply 2 Tbs (1 fl oz) to 1 gal water. Spray as aphids appear. Repeat if reinfestation occurs.~~

~~Honeysuckle Aphid (Honeysuckle): Spray foliage as leaves begin spring expansion. Reapply 2 weeks later with a third spray 4 weeks later.~~

~~Japanese Beetle on Roses, Linden and Boston Ivy: Apply 4 Tbs (2 fl oz) in 1 gal water. Begin spraying when beetles or their damage first appear and repeat at 7 to 10 day intervals for as long as needed.~~

~~All Other Listed Pests on Roses, Flowers, Ornamentals, Shrubs and Trees: Apply 3 Tbs (1 1/2 fl oz) to 1 gal water. Spray when insects or mites are present or feeding damage is first noticed. Repeat if reinfestation occurs. For Mealybugs, Flower Thrips, Whiteflies, Mites, Scales and other hard to control pests, spray 2 to 3 times about 7 to 10 days apart. For best results, apply at first sign of infestation, before population becomes large.~~

OTHER INSECTS/PESTS CONTROLLED

~~CONTROLS: Aphids, Ash Plant Bug, Bagworm, Beet Armyworm, Birch Leafminer, \*Black Vine Weevil, Budworms, Cabbage Looper, Catalpa Sphinx Moth (larvae), Cottonwood Leaf Beetle, Cuban Laurel Thrips, Elm Leaf Beetle, Fall Cankerworm, Fall Webworm, Fuchsia Mite, Grasshoppers, Gypsy Moth (larvae), Holly Leafminer, Lacebugs, Leafrollers, Leafhoppers, Lilac Leafminer, Maple Shoot Moth (larvae), Mimosa Webworm, Mealybugs, Nantucket Pine Tip Moth (larvae), Oak Webworm, \*Obscure Root Weevil, Orangestriped Oakworm, Poplar Tentmaker, Psyllids, Saddled Prominent Caterpillar, Sawflies (Dusky Birch, Blackheaded Ash, Redheaded Pine and European Pine), Scales (crawlers), Spittlebugs, Spruce Mite, Stinkbugs, Thrips, Tent Caterpillars, Two-spotted Spider Mite, Whiteflies, Willow Leaf Beetle.~~

~~\*SPECIAL DIRECTIONS: BLACK VINE WEEVIL Spray foliage and soil beneath plants. Begin applications in mid June and make 3 additional applications at 3 week intervals. OBSCURE ROOT WEEVIL Spray foliage in late spring as soon as feeding is noticed (usually about May). Repeat every 4 weeks through September. COMBINATION SPRAY WITH FUNGICIDE ON ROSES: This product may be used together with ORTHO® FUNGINEX® Rose Disease control, or ORTHO Multi-Purpose Fungicide DACTONIL 2787® at the rates recommended on each product label. Apply fungicide on a regular schedule to control disease and add this product only when insect control is desired. Do not apply more than three consecutive applications in combination with any of the above fungicides.~~

HOW TO APPLY

Spray entire plant covering upper and lower leaf surfaces thoroughly.

WHEN TO APPLY

- Spray when insects/pests are present or when feeding injury is first noticed.
- For hard to control/kill insects/pests such as Mealybugs,

Flower Thrips, Whiteflies, Mites & Scales, spray 2 to 3 times, waiting 7 to 10 days between applications.

- Repeat if reinfestation occurs.

**SPECIAL DIRECTIONS**

- For Honeysuckle Aphid (Honeysuckle): Spray foliage as leaves begin spring expansion. Spray 3 times, waiting 2 weeks between applications.
- For Obscure Root Weevil (adults): Spray foliage in late spring as soon as feeding is noticed (usually about April). Repeat every 4 weeks through September (mid-July through August are the peak feeding times).
- For Black Vine Weevil: Spray foliage and soil beneath plants. Begin applications in mid-June. Spray 4 times, waiting 3 weeks between applications.

**COMBINATION SPRAY WITH FUNGICIDE ON ROSES**

This product may be used together with ORTHO RosePride® Funginex® Rose & Shrub Disease Control or Ortho® Multi-Purpose Fungicide Daconil 2787® Plant Disease Control at the rates recommended on each product label. Apply fungicide on a regular schedule to control disease, and add Isotox® Insect Killer Formula IV this product only when insect control is desired. Do not apply more than three consecutive applications in combination with any of the above fungicides.



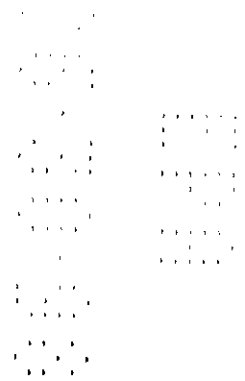
**HOW IT WORKS**

Stops plant damage from a wide range of insects/pests including mites. Quickly kills sprayed insects/pests and continues killing insects/pests which contact or feed on treated plants. Sprayed leaves and stems absorb Isotox providing internal protection that won't wash off with rain or watering.

**STORAGE AND DISPOSAL**

**STORAGE:** Store away from heat or open flame. Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably in a locked storage area. Do not store diluted spray.

**DISPOSAL:** **PRODUCT** - Partially filled bottle may be disposed of by securely wrapping original container in several layers of newspaper and discard in trash. **CONTAINER** - Do not reuse empty bottle. Rinse thoroughly before discarding in trash.



**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**DANGER:** Causes irreversible eye damage and skin irritation. May be harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear goggles. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**DANGER:** Causes irreversible eye damage and skin irritation. May be harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear goggles. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. **FIRST AID:** If in eyes: hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See a physician immediately. If on skin: wash with plenty of water. Get medical attention. If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. Drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol. When handling this product, wear chemical resistant gloves, long pants, and long sleeved shirt. When using outdoors, spray with the wind to your back and do not use when wind speeds are 10 mph or more. Wash the outside of the gloves with soap and water before removing. ~~[Reentry Icon]: [Child/Pet Icon]~~ Do not allow persons or pets to enter the treated area until sprays have dried. **Note to Physicians:** Probable mucosal damage may contraindicate the use of gastric lavage. Emergency Information call 1-800-225-2883 454-2333.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to birds, mammals, fish and aquatic invertebrates. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. Cover or soil-incorporate spills. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting treatment area.

**PHYSICAL OR CHEMICAL HAZARDS:** Flammable. Keep away from heat and open flame.

**NOTICE:** Buyer assumes all responsibility for safety and use not in accordance with directions.



☺ ☺ ☺  
• Questions, Comments or Medical Information  
call 1-800-225-2883      www.ortho.com

ORTHO®, SOLARIS®, ISOTOX®, ORTHENE®, Dial 'n Spray® & RosePride®  
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P.O. Box 5008  
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Form 0-277-01 RS850  
Product 5616  
EPA Reg. No. 239-2595  
EPA Est. 239-1A-3<sup>1</sup>, 58996-MO-1<sup>A</sup>  
Superscript is first letter of lot number  
Made in USA