67016-1

01/06/2005

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# **Crop Biostimulant**



#### For Maximizing Crop Yield and Quality

### **Active Ingredient:**

Cytokinin (as kinetin)*	0.01%			
Other ingredients	99.99%			
TOTAL				
*100 ppm of Kinetin activity				

ACCEPTED
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Under the Federal Insecticides. Fungicide, and Redeutlates Act. as emerged, for the posicide
EPA Reg. No. 67016-1

# KEEP OUT OF REACH OF CHILDREN CAUTION

## PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants; waterproof gloves; shoes plus socks.

**User Safety Requirements**: Follow manufacturer's instructions for cleaning and maintaining PPE. IF no such instructions for washables, use detergents and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**: User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

	First Aid
IF ON SKIN OR CLOTHING:	<ul> <li>Take off contaminated clothing.</li> </ul>
	<ul> <li>Rinse skin immediately with plenty of water for</li> </ul>
	15-20 minutes.
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF IN EYES:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> </ul>
	<ul> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> </ul>
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container la	abel with you when calling a poison control center. For spill, leak,
	call Acadian Agritech 1-902-468-2840 (8:30 AM - 5:00 PM EST

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#### Environmental Hazards

For terrestrial uses: 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 when disposing of equipment washwater or rinsate.

#### NET CONTENTS: 2.5 U.S. Gal.

#### **PRODUCT OF CANADA**

Manufactured By: Acadian Agritech 30 Brown Avenue Dartmouth, Nova Scotia Canada, B3B 1X8

# EPA REG. NO.: 67016-1 EPA EST. NO.: 67016-CAN-002 Lot Number: Revision: 11.01

# DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read, understand and follow the precautions and directions on the labeling before using.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protective Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours/ unless wearing the appropriate PPE.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water) is:

\*Coveralls \*Waterproof gloves \*Shoes plus socks

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# **GENERAL INFORMATION**

STIMPLEX<sup>®</sup> is a plant growth regulator extracted from specially selected marine plants which simulates plant growth and development, promoting:

- Earlier maturity

Increased yields
Increased fruit set

- Improved resistance to Environmental stress
- Improved crop quality

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#### Page 4 of 15; rev. 11-22-04 RECOMMENDED CROPS

**STIMPLEX**<sup>®</sup> is used on:

### FIELD CROPS:

ALFALFA (Includes Alfalfa, Birdsfoot Trefoil, Clover, Esparcet, Holy Clover, Lucerne, Sainfoin and varieties and/or hybrids of these), CORN (Includes Field Corn and Popcorn), COTTON, LUPINE, PEANUTS, RICE, SORGHUM (Includes Milo), SOYBEANS, SUGAR BEETS, TRITICALE, WHEAT

### FRUITS:

APPLES, AVOCADO, BANANAS, BLUEBERRIES, CANE FRUIT (Includes Blackberries, Currants, Gooseberries and Raspberries), CITRUS (Includes Grapefruit, Lemon, Lime, Oranges, Tangelos and Tangerines), GRAPES, PEARS, PLANTAINS, STONE FRUIT (Includes Apricots, Cherries, Nectarines, Peaches and Plums), STRAWBERRIES

### TREE NUTS:

ALMONDS, CASHEWS, CHESTNUTS, COCONUTS, HAZELNUTS, MACADAMIA, PECANS, PISTACHIOS, WALNUTS

#### VEGETABLES:

ASPARAGUS, BEANS (Includes Asparagus Beans, Blackeyed Peas, Broad Beans, Catjang, Chickpeas, Cowpeas, Crowder Peas, Fava Beans, Garbanzo Beans, Kidney Beans, Lima Beans, Mung Beans, Navy Beans, Pinto Beans, Snap Beans, Southern Peas and Wax Beans), BROCCOLI, (Includes Chinese Broccoli), BRUSSELS SPROUTS, CABBAGE, CARROTS, CAULIFLOWER, CELERY, CORN (Sweet), CUCUMBER, EGGPLANT, GARLIC, GINSENG, LETTUCE, MELONS, OKRA, ONIONS, PEAS (Includes Lentils), PEPPERS, POTATOES, PUMPKINS, RADISHES, SHALLOTS, SPINACH, SQUASH, SWEET POTATOES, TOMATOES (Includes Tomatillos), YAMS

#### HERBS & SPICES:

BASIL, CHIVE, CILANTRO, CORIANDER, DILL, FENNEL, MARJORAM, NUTMEG, PARSLEY, PEPPER (Includes Black Pepper and White Pepper), ROSEMARY, SAFFRON, SAGE, SAVORY, SWEET BAY, TARRAGON

#### NON-FOOD CROPS:

HOLLY, JOJOBA, ORNAMENTALS, TREES, TURF

### GRASS FORAGE:

(Includes all pasture and range grasses)

#### MIXING INSTRUCTIONS:

STIMPLEX<sup>®</sup> is water soluble and suitable for use in conventional liquid application systems. Adjust acidic dilution water (pH less than 5) to neutral pH (6.5 to 8.0) prior to the addition of STIMPLEX<sup>®</sup>. Agitate the tank mixture during application and use within 24 hours after dilution.

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#### COMPATIBILITY:

STIMPLEX<sup>®</sup> can be tank mixed (unless prohibited) with foliar fertilizers. Test the compatibility of the intended tank mixture before use. Add the proportionate amounts of each diluted ingredient to a jar. Cover, shake and let stand 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture.

#### APPLICATION RATES AND TIMING

Seed Treatment: To coat seeds prior to planting, apply STIMPLEX<sup>®</sup> at the rate of 4 ounces per 5 gallons of water and coat seeds briefly before planting; or, apply 2 ounces per 5 gallons of water directly on peat pots, planting mixture or seed bed immediately before planting.

Nursery/Container Use: Apply STIMPLEX<sup>®</sup> as a fine mist spray to container-grown plants at the rate of 2 ounces per 5 gallons of water, every 2 to 4 weeks. Mist leaves thoroughly but not to the point of excessive run off.

Rooting and Transplant Solution: Dip cuttings in a STIMPLEX<sup>®</sup> solution of 8 ounces per 5 gallons of water before rooting. For use as a rooting medium, set cuttings in a solution of 2 ounces per 5 gallons of water. Immediately before transplanting, dip roots in a 4 ounces per 5 gallons of water solution.

Chemigation: Refer to supplemental labeling entitled "Supplemental Chemigation Labeling for STIMPLEX<sup>®</sup>" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

Foliar Spray: STIMPLEX<sup>®</sup> is most effective when used as part of a regular foliar nutritional spray program and can be applied with any standard fertilizer or crop protection spray system. Apply the foliar spray mixture as a fine mist, with low fluid velocity until the foliage is wet. Where common, a biodegradable surfactant can be used.

Do not spray just prior to and after rainfall. Apply in calm weather conditions, preferably in early morning or in the evening. A foliar spray mixture of 25 to 100 gallons of water per acre is generally sufficient. The volume of water varies depending on equipment used, area to be covered and size of plants.

For large areas where aircraft or power driven sprayers are used to apply the spray, follow the specific crop use rates below. Apply with sufficient water to get thorough foliage coverage, 3 to 10 gallons of water per acre for aircraft sprayers and 10 to 50 gallons of water per acre for ground driven spray equipment.

Crop Foliar Applications: Adjust the suggested rates and dosages for foliar applications of STIMPLEX<sup>®</sup> depending on the climatic region, soil type and fertility. For best results increase the frequency of applications rather than the concentration of the spraying solution. Additional applications can be made as required, and/or immediately prior or following stress periods such as frost or drought.

CROP

# **APPLICATION STAGES**

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VEGETABLES:		APPLICATION
ASPARAGUS	<ol> <li>For newly established plants, make 1 application to new flush or fern growth in spring</li> <li>For mature crops, make 1 application to new fern growth</li> </ol>	1½ to 2 pints per acre
	after cuttings have stopped	
BEANS PEAS	<ol> <li>At 2 to 3 trifoliate leaf stage</li> <li>At first bloom</li> <li>At pod initiation</li> </ol>	1½ to 2½ pints per acre
CARROTS GARLIC ONIONS RADISHES SHALLOTS	<ol> <li>2 to 3 weeks after emergence</li> <li>At root enlargement</li> </ol>	2 to 2½ pints per acre
BROCCOLI BRUSSELS SPROUTS CABBAGE CAULIFLOWER	<ol> <li>At 4 to 6 true leaf stage</li> <li>10 to 14 days later</li> <li>At head initiation</li> </ol>	2 to 2½ pints per acre
SWEET CORN & POPCORN	<ol> <li>At 2 to 6 leaf stage</li> <li>At 20 to 30 inch growth stage</li> <li>Just prior to tasseling</li> </ol>	2 to 2½ pints per acre
CELERY	<ol> <li>Within 7 days of transplanting or 2 to 3 weeks after emergence</li> <li>10 to 14 days later</li> <li>10 to 14 days later</li> </ol>	2 to 2½ pints per acre
CUCUMBERS	<ol> <li>At first 4 true leaves from seed</li> <li>At first pre-bloom</li> <li>7 to 14 days later</li> <li>Every 7 to 14 days until harvest</li> <li>Within 48 hours of each picking</li> </ol>	2 to 3 pints per acre
EGGPLANTS MELONS PEPPERS PUMPKINS SQUASH	<ol> <li>At 6 to 8 inch growth stage</li> <li>At pre-bloom stage</li> <li>At fruit set</li> <li>Within 48 hours of each picking</li> </ol>	2½ to 3 pints per acre
LETTUCE SPINACH	<ol> <li>At 4 leaf stage</li> <li>Followed by regular applications at 14 day intervals</li> </ol>	1½ to 2 pints per acre
OKRA	<ol> <li>2 weeks after emergence</li> <li>Regular applications at 1 week intervals until the end of blooming</li> </ol>	2 to 2½ pints per acre

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POTATOES		Page 7 of 15 2 to 2½ pints
YAMS	1. At tuber initiation (tuber set) or	per acre
TAIVIO	3 to 5 weeks after emergence	P
	2. 10 to 14 days later	
TOMATOES	3. At the start of blooming1. At 6 to 8 inch growth stage	21/ to 2 pints
TOWATOLS	2. At pre-bloom stage	2½ to 3 pints
	3. At fruit set	per acre
	4. Approximately 14 days later	
	5. For fresh market varieties	
	make extra applications within	
	48 hours of each picking	
GINSENG	1. 1 <sup>st</sup> Year: At 4 to 6 weeks after	2 pints per acre
	emergence (at full leaf	- P P 4010
	expansion). Apply monthly	
	until first frost	
	2. 2 <sup>nd</sup> Year: Apply monthly	
	beginning at full leaf expansion	
	until first frost	
	3. 3 <sup>rd</sup> Year: Apply just prior to	
	flowering. Apply monthly	
	thereafter until first frost	
	4. 4 <sup>th</sup> Year: Apply just prior to	
	flowering. Apply monthly	
	thereafter until first frost	
FRUIT:		
APPLES	1. At green growth (tight cluster)	21/2 to 3 pints
	2. Pre-bloom / pink buds	per acre
	3. Half-bloom	
	4. ¾ petal fall	
	<ol> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> </ol>	
	<ul><li>4. ¾ petal fall</li><li>5. Young fruit</li><li>6. Every 14 days until harvest</li></ul>	
BANANAS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud</li> </ul>	2-3 pints/A
BANANAS PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> </ul>	2-3 pints/A
	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> </ul>	2-3 pints/A
	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> </ul>	2-3 pints/A
	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until</li> </ul>	2-3 pints/A
PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> </ul>	•
	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> </ul>	2 to 2½ pints
PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> </ul>	
PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> <li>3. 50% bloom</li> </ul>	2 to 2½ pints
PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> <li>3. 50% bloom</li> <li>4. Berry set / early shattering</li> </ul>	2 to 2½ pints
PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> <li>3. 50% bloom</li> </ul>	2 to 2½ pints
PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> <li>3. 50% bloom</li> <li>4. Berry set / early shattering</li> </ul>	2 to 21/2 pints
PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> <li>3. 50% bloom</li> <li>4. Berry set / early shattering</li> <li>5. 2 to 3 weeks later</li> </ul>	2 to 2½ pints per acre
PLANTAINS	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> <li>3. 50% bloom</li> <li>4. Berry set / early shattering</li> <li>5. 2 to 3 weeks later</li> <li>1. Pre-bloom (2 weeks prior to bloom)</li> </ul>	2 to 2½ pints per acre 2 to 2½ pints
PLANTAINS GRAPES	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> <li>3. 50% bloom</li> <li>4. Berry set / early shattering</li> <li>5. 2 to 3 weeks later</li> <li>1. Pre-bloom (2 weeks prior to bloom)</li> <li>2. 2 weeks following petal fall</li> </ul>	2 to 2½ pints per acre
PLANTAINS GRAPES	<ul> <li>4. ¾ petal fall</li> <li>5. Young fruit</li> <li>6. Every 14 days until harvest</li> <li>1. Just prior to flower bud formation</li> <li>Or</li> <li>2. At start of new sucker growth</li> <li>3. Every 4 to 8 weeks until harvest</li> <li>1. At start of spring growth</li> <li>2. 18 to 24 inch growth</li> <li>3. 50% bloom</li> <li>4. Berry set / early shattering</li> <li>5. 2 to 3 weeks later</li> <li>1. Pre-bloom (2 weeks prior to bloom)</li> </ul>	2 to 2½ pints

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GRAPEFRUIT	4	Dro bloom / oorly bloom	$3 \text{ to } 3\frac{1}{2} \text{ pints}$
LEMON	1.		per acre
	2. 3.	· • •	, <b>F</b>
ORANGES	- 3. - 4.		
TANGELOS	4. 5.		
TANGERINES	<b>Э</b> .	6 to 8 weeks prior to harvest for fresh market varieties	
BLACKBERRES	4		0.4= 01/ =:=t=
CURRANTS	Ι.	Pre-bloom (2 weeks prior to	2 to 2½ pints
GOOSEBERRIES	<u>^</u>	bloom)	per acre
		2 weeks following petal fall	
RASPBERRIES		30 days after last application	
		30 days before harvest	
	ວ.	Optional application 1 to 2	
	0	weeks following harvest	
	ь.	Optional application 30 to 45	
		days following harvest (for	
		winter hardiness)	
APRICOTS	1.		2 <sup>1</sup> ⁄ <sub>2</sub> to 3 pints
NECTARINES	2.	81	per acre
PEACHES	_	fall	
PLUMS	3.	, , , , , , , , , , , , , , , , , , , ,	
	4.	5 11	
	5.	Optional application 30 days	
		before harvest	
CHERRIES		At green growth (tight cluster)	3 to 31/2 pints
	2.	1	per acre
	3.	-	
	4.	•	
		Young fruit	
		Every 14 days until harvest	
STRAWBERRIES	1.	10 to 14 days after	1½ to 2 pints
		emergence	per acre
	2.	At first bloom	
	3.	Every 2 to 3 weeks through to	
		picking	
BLUEBERRIES	1.	Pre-bloom (2 weeks prior to	2 to 21/2 pints
		bloom)	per acre
	2.	2 weeks following petal fall	
		30 days after last application	
	4.	30 days after last application	
		(or 14 to 30 days before	
		harvest)	
	5.	Optional application 1 to 2	
		weeks following harvest	
	6.	Optional application 30 to 45	
		days following harvest (for	
		winter hardiness)	

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Page 9 of 15 3 to 3<sup>1</sup>/<sub>2</sub> pints

per acre

- At green growth (tight cluster)
   Pre-bloom / pink buds
- 3. Half-bloom

- 4. ¾ petal fall
   5. Young fruit
   6. Every 14 days until harvest

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# FIELD CROPS:

PEARS

ALFALFA	1.		2 to 21/2 pints
		to 10 days after each cutting or heavy pasturing	per acre
COTTON	1.	At flower bud initiation	2 to 21/2 pints
	2.	7 to 10 days later	per acre
	Or		
	1.	At pinhead square	11/2 to 21/2 pints
	2.	3 applications at 7 to 10 day intervals	per acre
CORN (FIELD)	1.	At 4 to 6 inch growth	2 to 21/2 pints
	2.	At 10 to 14 inch growth	per acre
	3.	Just prior to tasseling	I
LUPINE	1.	3 to 7 trifoliate leaf stage	2 to 21/2 pints
	2.	2 to 3 weeks later	per acre
PEANUTS	1.	3 weeks after emergence and	2 to 3 pints
		three other applications every 1 to 2 weeks	per acre
RICE	1.	3 to 5 leaf stage	2 to 21/2 pints
			per acre
	2.	At panicle initiation	1 to 1½ pints
			per acre
SOYBEANS	1.	When buds appear	2 to 21/2 pints
	2.	0	per acre
	3.	1 or 2 other applications at 2	
		to 3 week intervals during the growing season	
SUGAR BEETS	1.	Between 2 to 6 leaf stage	2 to 21/2 pints
	2.	7 to 10 days later (6 to 10 leaf stage)	per acre
	3.	7 to 10 days later (10 to 14	
	0.	leaf stage)	
SORGHUM	1.	At 2 to 6 leaf stage	2 to 21/2 pints
			per acre

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WHEAT		
TRITICALE		
Summer Crop	<ol> <li>At 4 to 8 inch stage</li> <li>At flowering or seed head</li> </ol>	2 to 2½ pints per acre
	development	
Winter Crop	<ol> <li>In fall, at 3 to 6 inch stage, provided plant growth has not</li> </ol>	2 to 21/2 pints
	entered dormancy period 2. As early as possible in the	per acre
	spring at beginning of new growth	
. •	3. Just prior to appearance of	
	seed head	
HERBS & SPICES:		
BASIL	1. Pre-bloom (2 weeks prior to	2 to 21/2 pints
CHIVE CILANTRO	bloom) 2. 2 weeks following petal fall	per acre
CORIANDER	3. 30 days after last treatment	
DILL	4. 30 days after last treatment	
FENNEL	5. Optional application can	
MARJORAM	continue up to 2 weeks before	
NUTMEG	harvest	
PARSLEY		
PEPPER ROSEMARY		
SAFFRON		
SAGE		
SAVORY		
SWEET BAY		
TARRAGON	· · ·	
TREE NUTS:		
ALMOND	1. Pre-bloom (2 weeks prior to	2 to 2 <sup>1</sup> / <sub>2</sub> pints
CASHEWS	bloom)	per acre
CHESTNUTS	2. 2 weeks following petal fall	
COCONUTS HAZELNUTS	3. 30 days after last application	
MACADAMIA	<ol> <li>30 days after last application</li> <li>Optional application 30 days</li> </ol>	
PECANS	before harvest	
PISTACHIOS		
WALNUT		

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### NON-FOOD CROPS:

**TURF**: STIMPLEX<sup>®</sup> can be used in sod production, parks, golf courses, athletic fields and home lawns. Apply a total of 6 to 7½ pints per acre over the growing season at the rate of 1½ to 2 pints per acre (1½ ounces per 2,200 square feet) per application. Begin STIMPLEX<sup>®</sup> applications at the initial growth stage and continue throughout the season at 2 to 4 week intervals. For seed production apply 1½ pints per acre just prior to spear formation. Additional applications can be made after periods of heavy use or high stress. Spray newly applied sod to help new root growth and root penetration of soil. A late season spray will help improve resistance to winter kill and frost damage.

**DECIDUOUS, CONIFEROUS TREES AND SHRUBS**: Make the first STIMPLEX<sup>®</sup> application early in the season at the initiation of new growth, applying 3 to 5 pints per acre (4½ ounces per 2,200 square feet). Follow with two sprays of 2½ pints per acre (2 ounces per 2,200 square feet) at 14 to 21 day intervals during the growing season. A late season spray will help improve resistance to winter kill and frost damage, although it should not be substituted for standard winter protection. A late season application will help Christmas trees retain their dark green color after cutting.

**FIELD ORNAMENTALS**: Start the season by applying 2 pints per acre (2 ounces per 2,200 square feet) at the early leaf stage. Continue with applications of 2 to 2½ pints per acre (2 ounces per 2,200 square feet) in the regular spraying program. An additional application prior to lifting will help retain moisture and resist wilting.

**GREENHOUSE ORNAMENTALS**: Start by spraying the foliage to runoff point within 10 days of transplant or emergence at the rate of  $1\frac{1}{2}$  to  $2\frac{1}{2}$  pints per 100 gallons of water. Continue with regular applications every 2 weeks.

**JOJOBA**: Apply STIMPLEX<sup>®</sup> after the initiation of new growth in spring or autumn, at the rate of 1<sup>1</sup>/<sub>2</sub> to 2<sup>1</sup>/<sub>2</sub> pints per acre.

### **GRASS FORAGE:**

STIMPLEX<sup>®</sup> can be used on fescue and all pasture and range grasses and grasses grown for hay or silage that will be fed to or grazed by livestock. Apply a total of 3 to 3<sup>1</sup>/<sub>2</sub> pints per acre at mid-spring and continue with monthly applications of 3<sup>1</sup>/<sub>2</sub> pints per acre for the next 3 to 4 months.

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# STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE**: Store in a cool place and out of direct sunlight. Keep from freezing.

**PESTICIDE DISPOSAL**: Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If pesticide, spray mixture, or rinsate cannot be used according to label directions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**: Do not reuse empty container. Triple rinse (or equivalent), then offer for recycling, reconditioning or puncture and dispose of in a sanitary landfill, by incineration or by burning, if allowed by State and local authorities. If burned, stay out of smoke.

# WARRANTY STATEMENT

Acadian Agritech warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. Crop injury, ineffectiveness or other unintended consequences may result because of such factors such as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of Acadian Agritech. In no case shall Acadian Agritech be liable for consequential, special or indirect damages resulting from the use or handling of this product, not in accordance with this label. Acadian Agritech makes no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

# SUPPLEMENTAL LABELING FOR STIMPLEX<sup>®</sup> CHEMIGATION

# GENERAL

- 1) Apply STIMPLEX<sup>®</sup> only through drip (trickle), sprinkler (including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set or hand move), flood (basin), furrow or border irrigation system(s). Do not apply STIMPLEX<sup>®</sup> through any other type of irrigation system.
- 2) A pesticide supply tank is recommended. Dilute 1 part STIMPLEX<sup>®</sup> with at least 5 parts water before adding to the supply tank. Continuous agitation of supply tank is recommended during application or injection into the chemigation system. For mixing instructions and compatibility information, see general use on container label.
- 3) Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 4) Apply STIMPLEX continuously for the duration of the water application.

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- 5) If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 6) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise.

# SPECIAL INSTRUCTIONS FOR USE OF PUBLIC WATER SOURCES

- 1) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices from public water systems are in place.
- 2) Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

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- 3) Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 4) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 5) The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 6) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 7) Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 8) Do not apply when wind speed favors drift beyond the area intended for treatment.

### SPECIAL INSTRUCTIONS FOR DRIP IRRIGATION (CHEMIGATION) SYSTEMS

- The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4 The system must contain functional interlocking control to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5 The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6 Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7 Do not apply when wind speed favors drift beyond the area intended for treatment.

### SPECIAL INSTRUCTION FOR FLOOD, FURROW AND BORDER IRRIGATION (CHEMIGATION) SYSTEMS

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

- 2) Systems utilizing a pressurized water and pesticide injection system must meet the following requirements.
  - a. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
  - b. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
  - c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
  - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
  - e. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
  - f. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.