



IR-4 Project: Helping Specialty Crop Farmers with their Pest Management Problems





G Brust



Overview

- 50+ years
- 4Regions + HQ
- @\$12M /yr NIFA; @ \$6M/yr other sources (ARS, FAS, APHIS, Industry, etc.)
- Significant In-Kind from EPA and LGUs
- Stakeholder Engagement in Priority Setting



IR-4 Mission*

Facilitate the regulatory approval
of **sustainable pest
management technology** for
specialty crops and specialty
uses to promote public wellbeing

*VISION 2020-IR-4 Project Strategic Plan 2015-2020

Success

IR-4 data has supported
over 47,000 uses of
pesticides & biopesticides
on specialty crops

Objectives

- Food Program
- Ornamental Program
- Biopesticide & Organic Support Program
- Public Health Pesticide Program



IR-4 Interaction w/IPM

- Regional IPM Centers assist IR-4 by participating in the screening of potential research project (i.e. IPM positive or negative)
- IR-4 responds to the requests of Regional IPM Centers for pest management technology (i.e. SWD management for organic fruit)
- Enhanced communication between IR-4 & IPM, cross representation between programs



With Specialty Crops:

Pest Management = IPM

&

Lines between conventional
agriculture and organic are
blurring

Specimen Label



NATURALYTE[®] INSECT CONTROL

*Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

A Naturalyte[®] insect control product formulated for control of lepidopterous larvae (worms or caterpillars), leafminers, thrips, and red imported fire ants.

Group	5	INSECTICIDE
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Active Ingredient:

spinosad (a mixture of spinosyn A and spinosyn D)	22.5%
Other Ingredients.....	77.5%
Total	100.0%

Contains 2 lb of active ingredient per gallon.



Listed by the Organic Materials Review Institute (OMRI) for use in organic production.



Precautionary Statements

Personal Protective Equipment (PPE)

Directions for Use

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

Read all Directions for Use carefully before applying.

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 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 Protection Standard.

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

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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until sprays have dried.

Storage and Disposal

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

Pesticide Storage: Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure 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

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Group	5	INSECTICIDE
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Active Ingredient:

spinosad (a mixture of spinosyn A and spinosyn D)	22.8%
Other Ingredients.....	77.2%
Total	100.0%

Contains 2 lb of active ingredient per gallon.

EPA Reg. No. 62719-292

EPA Est. _____

Precautionary Statements

Personal Protective Equipment (PPE)

applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Agricultural Use Requirements (Cont.)

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 Protection Standard.

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Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

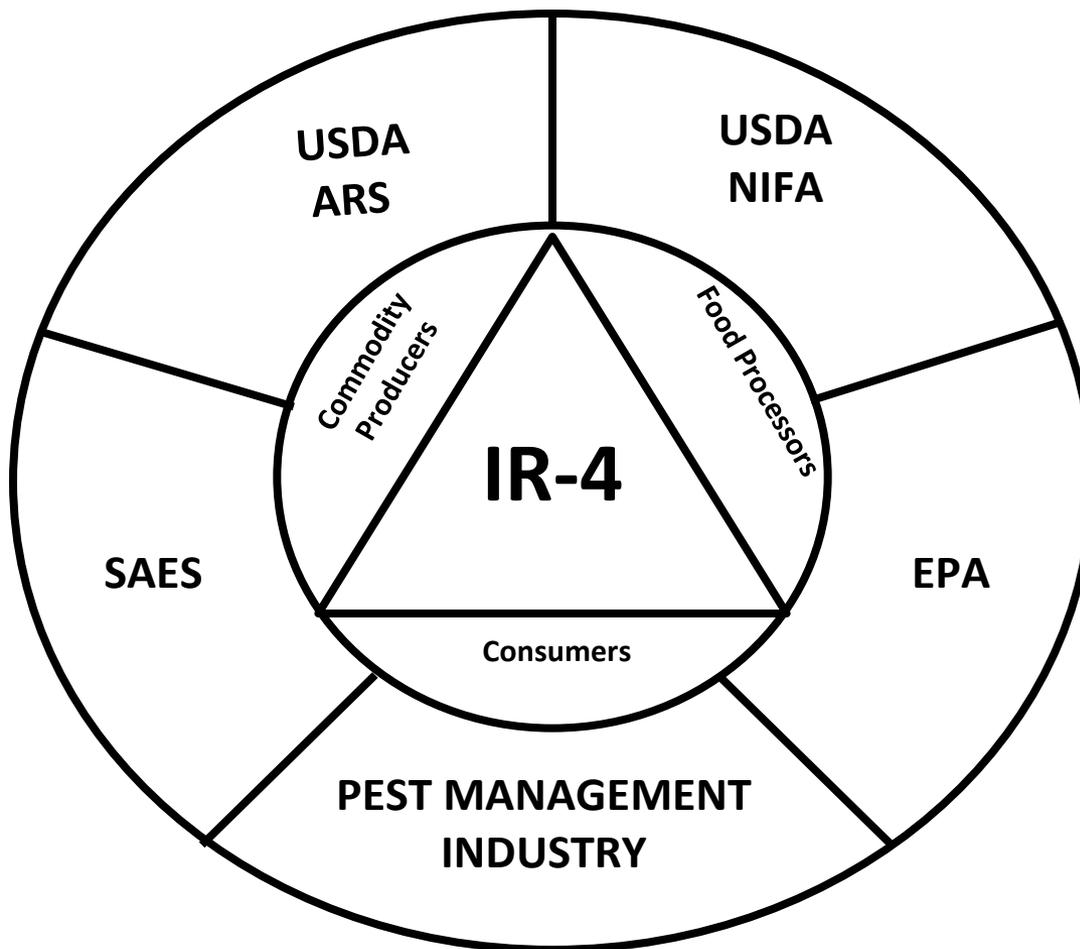
Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Offer for recycling if available.

Refillable containers 5 gallons or larger:

The Year 2050

Where will we
find enough food
for 9 billion?

Collaboration





Thank You
Time for a Healthy Lunch-Supported by NIFA

