

Specimen Label



For Greenhouse Tomatoes and Outdoor and Greenhouse Ornamentals

Active Ingredient:

Buprofezin: 2-tert-butylimino-3-isopropyl-5-phenylperhydro-1,3,5-thiadiazin-4-one.....	70.00 %
Other Ingredients.....	30.00 %
Total.....	100.00 %

Contains 0.70 lbs. Buprofezin per pound of product

Keep Out of Reach of Children

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash before reuse.

Applicators and other handlers must wear:

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

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

USER SAFETY RECOMMENDATIONS

Users should: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

FIRST AID

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.

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 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 swallowed

- Call 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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC at 1-800-535-5053**.

Note to Physician: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. For product information use web site www.sepro.com.

Refer to inside of label booklet for additional precautionary information and Directions for Use.

Notice: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer", "Inherent Risks of Use" and "Limitation of Remedies" inside label booklet.**

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FPL 090904

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SC-55-0100

Manufactured for:
SePRO Corporation Carmel, IN 46032 U.S.A.
Active ingredient Made in Japan. Formulated and packaged in U.S.A.

Talus[®] Insect Growth Regulator

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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 by cleaning of equipment or disposal of equipment washwaters.

IMPORTANT: Read the entire **Directions for Use** and **Disclaimer of Warranties** before using this product.

Directions for Use

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

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 restricted entry interval (REI) of 12 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 over long-sleeved shirt and long pants
- Waterproof gloves
- Socks and chemical-resistant footwear

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this package 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, or greenhouses. For other uses, including golf courses and other nonagricultural uses, do not enter treated areas without protective clothing until sprays have dried.

General Information

Talus[®] insect growth regulator contains the active ingredient, buprofezin. It is effective against the nymph stages of whitefly, scales, mealybugs, planthoppers, and leafhoppers by inhibiting chitin biosynthesis, suppressing oviposition of adults, and reducing viability of eggs. Treated susceptible pests may remain alive on the plant for 3-7 days, but feeding damage during this time is typically very low. Talus is not disruptive to beneficial insects and mites.

Good coverage is essential. Apply by ground or air in sufficient water volume. Orient nozzles to assure good coverage. Use of higher volume of water will assure better coverage, especially under adverse conditions such as hot weather, dry weather, and/or a dense canopy. The entire field should be treated.

Apply when economic infestations occur based on local information.

Talus is not for sale, sale into, distribution, and/or use in Nassau and Suffolk counties of New York state.

Insects Controlled

Whiteflies: Silverleaf whitefly, Sweet potato whitefly, Greenhouse whitefly, Ash whitefly

Mealybugs: Grape mealybug, Vine mealybug, Citrus mealybug, Comstock mealybug, Longtailed mealybug, Mexican mealybug, Obscure mealybug

Leafhoppers and Planthoppers: Eastern grape leafhopper, Glassy-winged sharpshooter, Variegated leafhopper, Western grape leafhopper, Cherry leafhopper, Potato leafhopper, Brown planthopper

Scales:

Soft Scales: Citricola scale, Barnacle scale, Black scale, Brown soft scale, False oleander scale, Hemispherical scale, Indian wax scale and other wax scales, Tessellated scale, White peach scale

Armored Scales: Boisduval scale, Cactus scale, California red scale, Coconut scale, Fern scale, Florida red scale, Oystershell scale, San Jose scale

Margarodid Scale: Cottony cushion scale

Mixing, Loading and Handling Instructions

Use Precautions

DO NOT use Talus water-soluble bags in a tank-mix with products that contain boron, chromium, or other micronutrients.

General Handling Instructions

Talus insect growth regulator is sealed in water-soluble bags. Do not open the foil-lined outer packaging until time of use. Do not use a knife or other sharp object to open the foil-lined outer packaging. Once the outer protective packaging has been opened, the water-soluble bag inside can be dropped into the spray tank at the appropriate time.

Specific Mixing Instructions: To ensure proper mixing of the soluble bags, follow the instructions below:

1. TALUS Alone: Begin by filling the spray tank with clean water to prime the system (about 6 to 8 inches for most sprayers). Turn off the fill valve and drop the recommended number of soluble bags into the tank, distributing them across the bottom but not covering the circulation and outlet holes. After the bags have **soaked for 2 minutes**, start the agitation and **agitate thoroughly for 2 minutes**. With the agitation on, continue to fill the spray tank to the desired level. Agitate during spraying. If spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load.

2. TALUS Tank Mixtures: Follow all use directions as listed above under **Talus Alone** with the following exception: after the Talus bags are thoroughly mixed and the **water is added to fill the tank 1/2 full**, add the recommended amount of wettable powder, soluble powder, flowable, emulsifiable concentrate, or soluble liquid product, **while maintaining agitation**. If a spray additive is needed, add a liquid fertilizer (**except fertilizers containing boron, chromium or other micronutrients: see Use Precautions**), surfactant, or crop oil concentrate to the spray tank. Then continue adding water to the tank to achieve the desired level, while maintaining agitation.

3. TALUS Tank Mixtures with products in water-soluble packaging: Follow all use directions as listed above under **TALUS Alone** with the following exception: add the desired number of other water-soluble bags to the tank (if allowed by their label instructions) at the same time the Talus bags are added to the spray tank.

Handling Precautions for Water-Soluble Bags

- Do not allow the foil-lined outer packaging or portions thereof to fall into spray tank as they are not water-soluble and may clog the sprayer.
- Do not handle the soluble bag with wet gloves, as the bag will begin to dissolve on contact with even a small amount of water.
- Do not open the soluble bag or attempt to remove the Talus from it. The product is not designed to be remeasured or subdivided; the entire contents of the water-soluble bag must be used.

Refer to the charts in the next column for the proper application rate of Talus insect growth regulator.

Resistance Management

Talus belongs to a class of chemicals not previously used as pesticides and not known to be cross-resistant to other classes of insecticides. However, insect pests are known to develop resistance to products used repeatedly. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotating with insecticides with different modes of action. Consult your local pest control advisor or extension office for details. If resistance to this product develops in your area, it may not provide adequate control. If you experience difficulty with control, and resistance is a likely cause, consult your local state university horticultural specialist or local agricultural authorities for the best alternative method of control. To preserve the usefulness of Talus, do not make more than two consecutive applications. Prior to subsequent applications, use an alternative chemistry with a different mode of action. If another insect growth regulator with the mode of action as a chitin synthesis inhibitor (ie. cyromazine, diflubenzuron, and novaluron) has been used in the greenhouse within 28 days, do not apply Talus as the first whitefly application. Always consult your local crop advisor for the most appropriate control decision for your area. Resistance management strategies advise against applying rates lower than those recommended on the label.

		Dosage Rates	
Crop	Pest	Rate	lb Formulated Product
Greenhouse Tomatoes	Whiteflies	0.25 - 0.38 lb ai/A	0.36 - 0.54 (6 to 9 oz)
	Mealbugs	0.38 lb ai/A	0.54 (9 oz)
	Leafhoppers	0.38 lb ai/A	0.54 (9 oz)

- Treatment should be applied when population level reaches economic threshold. Consult local and State agricultural authorities for details.
- Good coverage is essential.
- For greenhouse tomatoes, apply by ground on 2 acres as a minimum with 20 gallons water per acre. Apply in sufficient water to obtain complete coverage of all plant parts. Applications may be made with high volume, low volume or ultra-low volume (thermal and non-thermal foggers, misters, etc.) ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs and/or your crop advisor for more information.
- Apply no more than two applications per growing cycle. Allow at least 28 days between applications.
- Do not apply within 7 days of harvest.
- See the **Resistance Management** section.

Application Rate Chart for TALUS Insect Growth Regulator

Crop	Pest	Dosage Rates	
		Rate	lb Formulated Product
Ornamental plants in greenhouses; lath and shadehouses; nurseries; landscape ornamentals; ground covers; field- and container-grown ornamentals; non-bearing fruit and nut trees and vines in nurseries; Christmas trees	Whiteflies	0.25 lb ai/100 gal	0.36 lb (6 oz)
	Mealbugs	0.50 lb ai/100 gal	0.71 lb (12 oz)
	Leafhoppers	0.50 lb ai/100 gal	0.71 lb (12 oz)
	Scales	0.60 lb ai/100 gal	0.86 lb (14 oz)

- Apply the specified dosage as a foliar spray in sufficient water for complete, uniform coverage, including stems and underside of leaves. Spray to the point of runoff.
- **For whitefly or leafhopper control:** Make first application as soon as adult insects begin to appear.
- **For mealybug control:** Make first application as soon as insect activity is observed.
- **For scale control:** Make first application when crawlers are emerging.
- If additional insecticide applications are required for control, use another class of chemistry or a different Insect Growth Regulator (IGR) with a different mode of action before making subsequent applications of buprofezin.
- Make no more than 2 applications of buprofezin per crop per season.
- Consult local or state agricultural authorities for details concerning economic thresholds for each target pest.

USE PRECAUTIONS

Apply in a minimum of 20 gallons per acre. Be sure to apply in sufficient water to obtain complete coverage of all plant parts.

Applications may be made with high volume, low volume, or ultra-low volume (thermal and non-thermal foggers, misters, etc.) ground equipment. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs, and/or your crop advisor for more information.

Do not apply this product through any type of irrigation system.

Mixing Chart for Determining Dosage Rate of TALUS Using 0.6 oz Water-soluble Bags

Rate ai/100 gal	oz formulated/100 gal	Number of 0.6 oz water-soluble bags ¹
0.25	0.36 oz	10 bags in 100 gal 5 bags in 50 gal 1 bag in 10 gal
0.50	0.71 oz	20 bags in 100 gal 10 bags in 50 gal 2 bags in 10 gal
0.60	0.86 oz	24 bags in 100 gal 10 bags in 50 gal 3 bags in 10 gal 1 bag in 4 gal

¹0.6 oz water soluble bags (packaged 24 x 0.6 oz water soluble bags per 0.9 lb container) in water

STORAGE AND DISPOSAL

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

STORAGE: Store in original container, unopened, in a cool, dry place.

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: Remove inner water-soluble bag from outer packaging and place inner bag into application equipment. Then dispose of empty outer packaging in a sanitary landfill, or by incineration, or, if allowed by State or local authorities, by burning. If burned, stay out of smoke.

Warranty Disclaimer

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation as the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies can not be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or Limitations of Remedies in any manner.