

Greenhouse and Nursery Ornamental Miticide / Insecticide

ACTIVE INGREDIENT:

Spiromesifen: 2-oxo-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4.4]non-3-en-4-yl
3,3-dimethylbutanoate 45.2%

OTHER INGREDIENTS: 54.8%

TOTAL: 100.0%

JUDO contains 4 pounds of spiromesifen per US gallon (480 grams ai per liter).

EPA Est. indicated by second and third digits of the batch number on this package.

(65) = 432-TX-1 (03) = 3125-MO-1

EPA Reg. No. 432-1280-59807

**STOP - READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN**

CAUTION

**For TRANSPORTATION Emergencies ONLY Call 24
Hours A Day 1-800-424-9300.
For MEDICAL and PRODUCT USE Information
Call 1-800-356-4647.**

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS**

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

Personal Protective Equipment (PPE):

Mixers, loaders and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves (such as natural rubber, EPA selection category A)
- Shoes plus socks

Applicators 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.

FIRST AID	
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration. • Call a poison control center or doctor for further treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • 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 a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
<p>Note To Physician: No specific antidote is known. Treat symptomatically.</p> <p>Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands 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.
- Remove Personal Protective Equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Avoid contamination of surface water through runoff or spray drift. 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 cleaning equipment or disposing of equipment washwater.

Net Contents: 8 fl. oz. (237mL)

SURFACE WATER ADVISORY

This product may contaminate water through runoff or through drift of spray in wind. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

DIRECTIONS FOR USE

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

IMPORTANT: Read entire label and Conditions of Sale before using this product.

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 **12 hours** following application. 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, are:

- Coveralls worn over short sleeved shirt and short pants
- Chemical resistant gloves (such as natural rubber, EPA selection category A)
- Shoes plus socks

GENERAL INFORMATION

JUDO is a Flowable (Suspension Concentrate) formulation that is intended for control of mites and whiteflies on ornamental plants, flowers and foliage plants in the greenhouse and field and container nurseries. The active ingredient contained in **JUDO** is active on all mite development stages. However, mite juvenile stages are often more susceptible than adults. Application should be timed to coincide with early threshold levels in a developing mite population.

JUDO is also highly effective against whitefly nymphs, plus it has a significant effect on the otherwise difficult to control pupal stage. For best results against whitefly, applications should target these life stages.

JUDO can be applied by ground equipment. Thorough coverage of all plant parts is required for optimum performance. Performance evaluations should be made 4 – 10 days after application.

Apply specific dosage of **JUDO** as needed for control. For best results good coverage of the upper and lower leaf surfaces is recommended. An adjuvant may be used to improve coverage on hard to wet foliage. For best results the treatment should be made when whitefly or mite population begins to build and before a damaging population becomes established. Rate range is provided and is generally dependent on size of the plant and density of the foliage. Apply with ground application equipment in adequate water for uniform coverage.

PRODUCT FEATURES

- Controls all stages of whitefly (nymphs, pupae, and adults).
- Provides knockdown and residual control of all developmental stages of mites.

PESTS CONTROLLED	USE RATE
Spider mites (including twospotted spider mite, southern red mite, Lewis mite, tumid mite, maple spider mite, spruce spider mite, honeylocust spider mite, euonymus mite, boxwood spider mite) Tarsonemid mites (including broad mite, cyclamen mite) Tenuipalp mites (including false spider mite) Rust and blister mites (family <i>Eriophyidae</i>)	1 to 4 fl. oz. (30 – 120 mL) / 100 gallons of spray solution or 1.5 – 6 mL / 5 gallons of spray solution
Whiteflies (including greenhouse, silverleaf and sweetpotato whitefly)	2 to 4 fl. oz. (60 – 120 mL) / 100 gallons of spray solution or 3 – 6 mL / 5 gallons of spray solution

WHERE TO APPLY

- To shrubs, trees (including non-bearing fruit and nut trees), flowers and foliage plants in greenhouses, shade houses and plants grown in field and container nurseries.

HOW TO APPLY

- Apply specific dosage of **JUDO** as needed for control. For best results, apply to achieve uniform coverage of the upper and lower leaf surfaces but avoid excess application that results in runoff from plant foliage.
- An adjuvant may be used to improve coverage on hard to wet foliage. For best results the treatment should be made when the whitefly or mite population begins to build and before a damaging population becomes established.
- **JUDO** is effective against the egg and nymphal stages of whiteflies and mites. Control should be directed at these stages.
- Apply as a full coverage spray to the foliage using a minimum volume of 1-2 qts of final solution per 100 sq ft (or 100 to 200 gal per acre). Actual spray volume will vary depending on the size of plants.
- For maximum efficacy against adult whiteflies, use the 4 fl. oz. rate of **JUDO**. For heavy infestations, two applications may be necessary to control adult whiteflies.

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HOW TO APPLY continued previous page

- Rate range is provided and is generally dependent on size of the plant and density of the foliage. Apply when pests first appear and prior to leaf damage or discoloration. Apply with ground application equipment in adequate water for uniform coverage.
- Do not apply via chemigation.
- Do not apply **JUDO** more than three times per season.

RESISTANCE MANAGEMENT

- **JUDO** contains an active ingredient with a novel mode of action. Studies to determine cross-resistance with **JUDO** linked to other commercial insecticide/miticides have demonstrated no cross-resistance. However, repeated use of any plant protection product may increase the development of resistant strains of pests, including insects and mites.
- Using **JUDO** in successive miticide applications during the same cropping cycle is not recommended. Use **JUDO** as a part of a sound resistance management program that includes rotation with other treatments with different modes of action.

PLANT TOLERANCE

- **JUDO** has been evaluated for phytotoxicity on a wide range of ornamental plants. However, due to the large number of species and varieties of ornamental plants, it is impossible to test every one for tolerance to **JUDO**. The professional user should determine if **JUDO** could be used safely prior to commercial use. In a small area, test the recommended rates on a small number of plants for phytotoxicity prior to widespread use. Before using **JUDO** in tank mixture with other products and adjuvants, test the mixture on a small number of plants for phytotoxicity prior to widespread use.
- Do not use **JUDO** on geraniums (*Pelargonium* sp.), *Peperomia*, *Dracaena*, and 'Classy', 'Attache', or 'Vogue' varieties of rose.
- Insufficient information on tolerance is available for the following ornamentals: lily-of-the-Incas (*Alstromoeria*), New Guinea impatiens, *Bacopa*, ferns, phlox, English ivy (*Hedera helix*), cyclamen, *Agyranthemum*, hydrangea, schefflera, *Matthiola* (stock), Mexican heather, *Lobelia*, fuschia, *Cordyline*, croton, neanthebella palm, and primula. It is recommended that **JUDO** not be used on these plants.
- Do not apply more than 2 fl. oz. per 100 gal per applications or 4 fl. oz. per cropping cycle to chrysanthemum, Shasta daisy, snapdragon, impatiens, verbena, lantana, gerbera daisy, or marigolds.

SPRAY DRIFT

- Avoid drift or runoff into lakes, reservoirs, rivers, permanent streams, marshes, potholes, vernal pools, natural ponds, estuaries, or commercial fish farm ponds. Do not apply when winds are greater than 15 mph and avoid gusty conditions.

IRRIGATION TIMING

- If irrigation is used, conduct irrigation efficiently to prevent excessive loss of irrigation water through runoff. Time applications to allow sprays to dry prior to rain or sprinkler irrigation. Allow at least 24 hours between applications of product and any irrigation that results in surface water runoff into lakes, reservoirs, rivers, permanent streams, marshes, potholes, vernal pools, natural ponds, estuaries, or commercial fish farm ponds.

ENDANGERED SPECIES

- The use of any pesticide in a manner that may kill or otherwise harm endangered species or adversely modify their habitat is a violation of Federal law.

RESTRICTIONS

- Do not use through irrigation systems.
- Do not use on vegetable gardens.
- Do not use on plants intended for use as feed or forage.
- Do not use on bearing fruit or nut trees.

PACKAGE HANDLING

- **JUDO** is packaged in polyethylene containers. Do not allow product or containers to freeze.

COMPATIBILITY / MIXING / ORDER-OF-MIXING

- **JUDO** is physically and biologically compatible with many registered pesticides and fertilizers or micronutrients. When considering mixing **JUDO** with other pesticides, or other additives, first contact your supplier for advice. For further information, contact your local OHP, Inc. representative. If your supplier and OHP, Inc. representative have no experience with the combination you are considering, you should conduct a test to determine physical compatibility. To determine physical compatibility, add the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank, into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be readily re-mixed, the mixture is considered physically compatible.
- **JUDO** may be used with other recommended pesticides, fertilizers and micronutrients. The proper mixing procedure for **JUDO** alone or in tank mix combinations with other pesticides is:
 - 1) Fill the spray tank 1/4 to 1/3 full with clean water;
 - 2) While recirculating and with the agitator running, add any products in PVA bags (**See Note**). Allow time for thorough mixing;
 - 3) Continue to fill spray tank with water until 1/2 full;
 - 4) Add any other wettable powder (WP) or wettable granules (WG) products;
 - 5) Add the required amount of **JUDO**, and any other "flowable" (FL or SC) type products;
 - 6) Allow enough time for thorough mixing of each product added to tank;
 - 7) If applicable, add any remaining tank mix components: emulsifiable concentrates (EC), fertilizers and micronutrients.
 - 8) Fill spray tank to desired level and maintain constant agitation to ensure uniformity of spray mixture.
- Mix pesticides in areas not prone to runoff such as concrete mixing/loading pads, disked soil in flat terrain or graveled mix pads, or use a suitable method to contain spills and/or rinsate. Properly empty and triple-rinse pesticide containers at time of use.

For Use in California:

Allow growth of a vegetative filter strip within 25-ft (on which this product should not be applied) along lakes, reservoirs, rivers, permanent streams, marshes, potholes, vernal pools, natural ponds, estuaries or commercial fish farm ponds. This requirement does not apply to retention or holding ponds used to collect and recycle water for irrigation.

STORAGE AND DISPOSAL

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

STORAGE:

- Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.
- Store in original container and out of the reach of children, preferably in a locked storage area.
- Handle and open container in a manner as to prevent spillage.

PESTICIDE DISPOSAL:

- Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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:

- Non-refillable 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.

Offer for recycling, if available or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond OHP, Inc.'s control it is impossible for OHP, Inc. to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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Manufactured for:

OHP, Inc.

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