



Miticide/Insecticide



FOR CONTROL OF MITES AND WHITEFLIES ON ORNAMENTAL PLANTS, FLOWERS, AND FOLIAGE PLANTS

Product Information Bulletin 206

GENERAL INFORMATION

JUDO is a miticide/insecticide that is highly effective against a wide range of mites and whiteflies. A member of the tetrionic acid class of chemistry (MOA Group 23), **JUDO** affects all development stages of mites and whiteflies (including eggs and immature stages). **JUDO** is translaminar and moves readily through the leaf tissue. **JUDO** provides extended control of mites (30+ days) and whiteflies (21+ days).

JUDO is formulated in a suspension concentrate (SC) containing 4 pounds of spiromesifen per gallon.

Common Name: Spiromesifen

Class: Tetrionic Acid

GROUP	23	INSECTICIDE
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Packaging: 8 fluid ounces, 6 per case

RESTRICTED ENTRY INTERVAL AND SIGNAL WORD

REI: 12 hours

Signal Word: Caution

PERSONAL PROTECTION EQUIPMENT (PPE)

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

ADVANTAGES OF JUDO

- Controls all stages of mites and whiteflies
- Long-term, 28-day residual control
- Unique class of chemistry
- Highly translaminar
- Soft on beneficials

MODE OF ACTION

JUDO is a lipid biosynthesis inhibitor (LBI). **JUDO** works by limiting production and storage of energy reserves critical for mite/insect growth and development. The treated mite or whitefly dries up and dies. This results in death 4 to 10 days after treatment, although feeding stops after 1 to 2 days.

APPLICATION AND RATES

Apply **JUDO** at the specific label rate to achieve control of the target pest(s). Good spray coverage of the upper and lower leaf surfaces is necessary for optimal control. An adjuvant may be used to improve coverage and enhance control. For best results, treatment should be made before a damaging pest population is established on the crop. **JUDO** is most effective against egg and nymph stages of whiteflies and mites. Treatments should target these stages. Dose range is listed below and generally depends on plant size and foliage density. Apply when pests first appear and prior to leaf damage or discoloration. Apply using spray equipment in adequate amount of water to achieve uniform coverage.

RATE: 2 to 4 fl. oz. per 100 gal. of spray solution

Pests Controlled with Judo
<ul style="list-style-type: none"> • Two Spotted Spider Mite • Southern Red Mite • Rust Mite • Cyclamen Mite • Broad Mite • Spruce Spider Mite • Honeylocust Spider Mite • Sweetpotato Whitefly • Silverleaf Whitefly • Greenhouse Whitefly
(See label for complete list of pests controlled.)

TANK MIXING

JUDO is physically and biologically compatible with many registered pesticides and fertilizers or micronutrients. To determine physical compatibility, mix a small amount of each product with water at the recommended concentration on the product labels, and look for signs of possible problems including drastic changes in temperature, precipitation of ingredients or excessive foaming.

For tank mixes with products with different formulations:

1. Fill tank 1/4 to 1/3 full with clean water.
2. While recirculating and with agitator running, add any products in PVA bags. 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 granular (WG).
5. Add **JUDO** or any other flowable (FL or SC)-type products.
6. Allow enough time for thorough mixing of each product to tank.
7. If applicable, add any remaining tank mix component: emulsifiable concentrate (EC), fertilizer, and micronutrient.
8. Fill spray tank to desired level and maintain constant agitation to ensure uniformity of spray mixture.

RESISTANCE MANAGEMENT

JUDO contains an active ingredient with a novel mode of action. Studies to determine cross-resistance with **JUDO** linked to other commercial insecticides/miticides have demonstrated no cross-resistance. However, repeated use of any crop protection product may increase the development of resistant strains of pests, including insects and mites.

PRECAUTIONS

1. Limit **JUDO** sprays to four applications per season or crop cycle.
2. Do not use **JUDO** in successive applications.
3. Do not reapply **JUDO** until two applications are made with miticides with different modes of action.
4. Do not use **JUDO** through irrigation systems.
5. Do not allow product to freeze.
6. See the label for other use precautions.

OHP Recipe for Success on Controlling Spider Mites

Application	Rate per 100 gallons	Rate per gallon tsp	Rate per gallon metric	Remarks
Kontos ^{®*}	1.7 to 3.4 fl. oz.	1/10 tsp to 1/5 tsp	.5 mL to 1 mL	Preventative
1. Floramite [®]	4 to 8 fl. oz.	1/4 tsp to 1/2 tsp	1.3 mL to 2.6 mL	Rapid activity
2. Judo [®]	1 to 4 fl. oz.	1/8 tsp to 1/4 tsp	.6 mL to 1.2 mL	Translaminar activity; control may be slow at cool temperatures
3. Sirocco [®]	3 to 4 fl. oz.	3/16 tsp to 1/4 tsp	1.3 mL to 2.6 mL	Translaminar activity
4. Shuttle ^{® O}	6.4 to 12.8 fl. oz.	2/5 tsp to 4/5 tsp	2 mL to 4 mL	Contact – rapid activity
Triact ^{® 70**} Alternative treatment and or tank mix	1/2 to 1 gal	3 3/4 tsp to 7 1/2 tsp	15.75 mL to 37.5 mL	Use the lower rate in greenhouses

* Kontos should be applied before mite pressure or populations build.

** Triact 70 or other horticultural oil can be used to reduce a high mite population before applying a conventional miticide. Be sure to follow label instructions and precautions if oils are used.

Always read the product label prior to product use.

Judo and Sirocco are registered trademarks of OHP, Inc.

Kontos is a registered trademark of Bayer.

Floramite is a registered trademark of Chemtura.

Shuttle is a registered trademark of Arysta LifeScience North America, LLC.

Triact is a registered trademark of Certis USA.



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