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Systems Integration Group, Inc.



# JMS

**ACCEPTED**  
 APR 28 1999  
 For the Federal Insecticide,  
 Fungicide, and Rodenticide Act  
 registered for the pesticide  
 entered under  
 EPA Reg. No. 65564-1

## Flower Farms, Inc.

### JMS STYLET-OIL®

**THE PREMIERE WHITE MINERAL OIL\* FOR CONTROL OF FUNGAL DISEASES, APHID-TRANSMITTED PLANT VIRUSES AND PHYTOPHAGOUS INSECTS AND MITES.**

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (AND DOMESTIC ANIMALS) CAUTION

Harmful if swallowed. If swallowed do not induce vomiting. Call a physician. Avoid breathing vapors and spray mists.

#### Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long sleeved shirt and long pants;
- Chemical-resistant gloves, such as:
- Barrier laminate or nitrile rubber, neoprene rubber or viton;
- 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.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below mean high water mark. Do not contaminate water when disposing of equipment wash waters. Apply this product only as specified on the label.

#### KEEP OUT OF REACH OF CHILDREN CAUTION

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED**-Do not induce vomiting. Call a physician.

**IF INHALED**-Remove victim to fresh air.

**IF ON SKIN**-Wash immediately with soap and water.

**IF IN EYES**-Wash immediately with copious amounts of water.

**NOTE TO PHYSICIAN: MAY POSE AN ASPIRATION PNEUMONIA HAZARD.**

#### ACTIVE INGREDIENT:

PARAFFINIC OIL..... 97.1%

INERT INGREDIENTS..... 2.9%

TOTAL..... 100%

Unulfonated Residue of the Oil..... 99.1%

Flash Point..... 345°F

EPA Registration No. 65564-1

#### STORAGE AND DISPOSAL

**STORAGE** - Keep drum tightly closed in storage to prevent entry of water. Do not freeze. Store drum on side. Roll drum before use if stored over-season.

**DISPOSAL PROHIBITIONS:** Do not contaminate water, food, or feed by storage and disposal. Open dumping is prohibited. Pesticide disposal waste resulting from the use of this product may be disposed of on site or at approved waste disposal facility.

**Container disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Consult Federal, State or local disposal authorities for approved alternative procedures.

\*White oil is a superior grade technical mineral oil subjected to sufficient refinement steps to remove the impurities found in typical spray oils.

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### METHOD OF APPLICATION/EQUIPMENT

Use the following application method information unless otherwise directed under "Timing/Remarks" for a particular crop/pest.

#### APPLICATION RATE

From 25-150 gallons of dilute spray emulsion per acre depending on plant size. Thorough coverage is necessary. A tractor speed of 3.5-4 mph (6-7 kph) is recommended. Vary the quantity of spray applied by changing the number of nozzles used, not by changing either tractor speed or spray pressure.

#### TIMING OF APPLICATIONS

**For use as an insecticide:** Spray should be initiated as soon as plants emerge. Plants should be sprayed weekly or twice weekly depending on level of pest infestation. Continue sprays through harvest.

**For use as a fungicide:** Spray weekly or once every two weeks depending on level of disease pressure.

**For use in mitigating aphid transmission of plant viruses:** Initiate sprays when winged aphids first appear. Spray weekly or twice weekly depending on level of disease/vector pressure. For cucurbits, begin spraying when 50% of plants germinate. Cucurbits should be sprayed twice weekly during rapid growth phase.

#### EQUIPMENT

Thorough coverage is essential. Best coverage is achieved with ground equipment using proper spray pressure, gallonage per acre, nozzles (generally hollow cone), nozzle spacing and tractor speed.

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

**For vegetables/plant virus:** Spray at no less than 400 psi using ceramic hollow cone nozzles (ALBUZ® ATR (lilac); HCA (green) color or their equivalent).

**For fungicide use:** Application system used for insect/plant virus is not required. However, maximum coverage and least potential for phytotoxicity results from use of this system. When using conventional application equipment, spray for coverage of upper leaf surface.

### GREENHOUSE

**For greenhouse use:** Apply recommended rate for control of the greenhouse pest. Use ceramic hollow cone nozzles (ALBUZ® ATR (lilac); HCA (green) color or their equivalent). Apply weekly or every two weeks depending on level of pest infestation. From 20-100 gallons of dilute spray emulsion per acre, depending on plant size. Spray to the point of runoff. Vary quantity of spray applied by changing the number of nozzles used, not by changing spray pressure, speed of sprayer or size of nozzle.

### COMPATIBILITY INFORMATION

Add the oil to tank mix formulations as the last ingredient. Local climatic conditions can adversely affect the persistence of oil on a crop. On crops where tank mixes and/or spray intervals have not been previously used, spray a small area with the recommended nozzles and spray pressure and wait several days. If sufficient time between sprays has not elapsed, phytotoxicity will normally occur in several days. Chemicals which are phytotoxic when used alone will be more phytotoxic when used with oil. **TANK MIX JMS Stylet-Oil® only with those chemicals registered for use on the specific crop to be treated.** When using JMS Stylet-Oil® in tank mixtures, observe all limitations, precautions and rate recommendations which appear on the label for these products: acephate (Orthene), benomyl (Benlate), copper ammonium carbonate (CCN), copper hydroxide (Kocide), fenvalerate (Asana XL), Mancozeb, Maneb, methamidophos (Monitor), metalaxyl (Ridomil) and triadimefon (Bayleton). **On grapes do not tank mix oil and copper more than once/season. Do not use copper and oil together with fruit present.**

**DO NOT** tank mix JMS Stylet-Oil® with spreader stickers, Nu-Film-P or Nu-Film-17 (pinolene based products). Do not use Nu-Film-17, Nu-Film-P during, with or following an oil application with fruit present. Wait at least 21 days between an oil application and spraying Nu-Film based products.

**DO NOT** tank mix JMS Stylet-Oil® with highly ionized nutrient spray materials (Nutri-Leaf) (20-20-20), Bayfolan. These materials can be sprayed separately from oil. JMS Stylet-Oil® is compatible with urea (up to 5 lb. per 100 gal.) and epsom salt (MgSO<sub>4</sub>) (3 lb. per 100 gal.).

**DO NOT USE** the following chemicals: captan, Folpet, oxythioquinox (Morestan), organic tin compds. (Du-Ter), during, with or following an oil spray.

**DO NOT USE** propargite (Omite) with an oil spray. Do not apply propargite within 30 days of an oil application.

**DO NOT USE** chlorothalonil (Bravo) or dimethoate (Cygon) in a spray program with JMS Stylet-Oil® on the following crops: grapes, ornamentals and strawberries. Do not use dicofol (Kelthane) in a spray program with JMS Stylet-Oil® on ornamentals and strawberries.

**DO NOT USE** the following chemicals with JMS Stylet-Oil® unless at least two weeks have elapsed between the use of oil and the chemical: anilazine (Dyrene), chlorothalonil (Bravo), dicloran (Botran), dicofol (Kelthane), Dikar, dinocap (Karatane), permethrin (Ambush, Pounce). **SULFUR: DO NOT** apply wettable or dusting sulfur within 14 days of an oil application. **DO NOT** apply micronized sulfur within 10 days of an oil application.

### ADDITIONAL COMMENTS ON SPRAYING

Do not spray wet foliage. Do not spray if temperature is below 50°F (10°C), above 90°F (32°C) or when plants are under heat or moisture stress.

### PREHARVEST INTERVAL No Interval Required

### 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.

### AGRICULTURE 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 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, such as Barrier laminate or nitrile rubber or neoprene rubber or viton;

Shoes plus socks

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## FOR VEGETABLES:

CROP	PESTS	RATE/100 gal. Water	TIMING & REMARKS (See Application/Compatibility Sections also)
Asparagus Bean Beet Cabbage Cauliflower Celery Cucumber Cucurbits Eggplant Lettuce Melon Okra Pepper Potato Pumpkin Squash Tomato	Leafhopper*, Leafminers, Mites, Whiteflies, Alternaria Leafspot, Gummy Stem Blight, Powdery Mildew, Rust	3-6 qts	Using ground equipment, spray for thorough coverage of upper leaf surface. For <b>aphid-transmitted plant viruses</b> and insect control use 400 psi spray pressure and ceramic hollow cone nozzles. For <b>fungal diseases</b> use at least 200 psi spray pressure.
	Cucumber Mosaic Virus, Papaya Ringspot Virus, Pepper Mottle Virus, Potato Leafroll Virus, Potato Virus Y, Tobacco Etch Virus, Watermelon Mosaic Virus 2, Zucchini Yellow Mosaic	3 qts	

## FOR SMALL FRUIT, BERRIES & VINE CROPS:

CROP	Pests	Rate/100 gal/water	TIMING & REMARKS (See Application/Compatibility Sections also)
Blueberries* Bushberries* Caneberries	Mites, Powdery Mildew, Rust	3-6 qts	Using ground equipment, spray for optimum coverage of leaf surfaces. For <b>fungal diseases</b> use at least 200 psi spray pressure.
Strawberries	Leafminers*, Mites, Botrytis, Powdery Mildew	3 qts	Spray at no less than 400 psi using ceramic spray nozzles (ALBUZ® ATR, lilac color or their equivalent).
Grapes	Mealybugs, Mites, Whiteflies*, Leafhopper*  Powdery Mildew, Botrytis	1-2 gal	Using ground equipment, spray for optimum coverage of leaf surfaces. Repeat sprays every 10-14 days.  <b>For powdery mildew</b> -Make first application pre-bloom and continue every ten days to three weeks depending on level of disease pressure. Use higher rate and shorter spray interval when disease conditions are severe. <b>For Botrytis Bunch Rot</b> -Initiate sprays at bloom and repeat prior to bunch closing and veraison. Final application at harvest if needed. Use higher rate when disease conditions are severe. Oil will temporarily remove the bloom on grapes. Table grapes should not be sprayed within two weeks of harvest. On grapes do <b>not tank mix</b> oil and copper more than once/season. Do not use copper and oil together with fruit present.
*Hops	Mites, Powdery Mildew	1-2 gal	<b>For powdery mildew:</b> Initiate sprays at early leaf stage. Continue sprays every 10-14 days. <b>Mite control</b> will be effective under the same spray interval as powdery mildew sprays. Discontinue sprays at burr development.

## FOR FIELD CROPS:

CROP	PESTS	RATE/100 gal. Water	TIMING & REMARKS (See Application/Compatibility Sections also)
Cotton Field Corn Sugar beets Sweet Corn Tobacco	Earworm, Fall armyworm, Corn rootworm, Leafhopper, Leafminer, Mites, Whiteflies, Cercospora	3-6 qts	Using ground equipment, spray for optimum coverage of leaf surfaces. For <b>fungal diseases</b> use at least 200 psi spray pressure.

\*Asterisk denotes crop, pest Not registered for use in California

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## FOR FRUIT AND NUT TREES:

CROP	PEST	Rate/100 gal. water	TIMING & REMARKS (See Application/Compatibility Sections also)
Almonds Apricots	Scale, Mites Fruit Tree Leafroller*	1-1.5 gal 2-3 gal	Dormant/delayed dormant.
	Scale, Mites	1 gal	Summer (foliar or cover sprays). Also postharvest. Do not apply to oil sensitive varieties.
Apple	Apple Red Bug European Fruit Lecanium Scale San Jose scale Fruit Tree Leafroller* European Red Mite	1-2 gal	Dormant/delayed dormant to 1/2" Green.
	Scurfy Scale	3 gal	
	Mites (including European Red Mite) Leafhopper* Rust mite* San Jose Scale Rosy Apple Aphid Fruit Tree Leafroller*	1-2 gal	Summer Use (foliar or cover sprays). Apply every 10-14 days depending on level of pest pressure. Also Postharvest to reduce overwintering pest pressure. Do not spray oil sensitive varieties.
	Powdery Mildew	1-2 gal	Apply at tight cluster and continue every 10-14 days through second cover spray. Use higher rate and/or shorter spray interval when disease conditions are severe.
Cherries	Fruit Tree Leafroller*	1-2 gal	Dormant/delayed dormant.
	Mites, Scale	1-2 gal	Summer Use. Apply when mites first appear. Repeat sprays every 10-14 days. Postharvest sprays may be made to maintain control and reduce overwintering pest pressure. Do not apply to oil sensitive varieties.
	Powdery Mildew	1-2 gal	Apply as first two sprays at 10-14 day interval up to shuck fall. Use shorter spray interval during rapid growth phase and/or under severe disease pressure. Do not spray when fruit is present. Postharvest applications may be made to maintain control and reduce overwintering inoculum.
Mango*	Mites	1-1.5 gal	Apply every 2-3 weeks as necessary depending on level of pest pressure.
	Powdery Mildew	1-1.5 gal	For Powdery Mildew: Begin application before bloom. Repeat at bloom and every 2-3 weeks as necessary.
Olives	Mites, Scale	1.5 gal	Prebloom to Postbloom Buckshot.
Papaya*	Mites, Powdery mildew, Papaya ringspot virus	0.75-1.5 gal	For powdery mildew/mites: Spray every 10-14 days depending on level of pest pressure. For virus: Initiate sprays when seeds are germinated. Spray weekly using 400 psi spray pressure and ceramic hollow cone nozzles.
Nectarines Peaches	Fruit Tree Leafroller* Cottony Peach Scale, Mites, Scale	2.5 gal 3 gal 1-2 gal	Dormant to delayed dormant.
	Mites, Scale	1-2 gal	Summer Use (foliar or cover sprays). Postharvest applications can be made to maintain control and reduce overwintering pressure.
	Powdery Mildew	1-2 gal	For powdery mildew begin at 5% bloom and continue at 10-14 day intervals until terminal growth phase stops. Do not apply to oil sensitive varieties.
Pears	Fruit Tree Leafroller* Pear Leaf Blister Mite Pear Psylla*	3 gal 2 gal	Dormant to Delayed Dormant -up to and including petal fall.
	Red Spider Mites San Jose & Italian Pear Scale (Summer forms)	1 gal 1-1.5 gal	Summer Use (foliar or cover sprays). Postharvest applications may be made to maintain control and reduce overwintering inoculum. Do not spray oil sensitive varieties.
	Leafhopper* Pear Psylla*	1-1.5 gal 1.5-2 gal	
	Powdery Mildew	1-2 gal	Apply at bud burst and continue every 10-14 days. Use higher rate and/or shorter spray interval when disease conditions are severe.
Pecans	Obscure Scale	3 gal	Dormant.
Plums & Prunes	European Red Mite European Fruit Lecanium Scale Mites, Scale	2 gal 2 gal 1-1.5 gal	Dormant to 1/2" Green.
	Mites, Scale	1-1.5 gal	Summer Use (foliar or cover sprays.) Watch for oil sensitive varieties. Spray a test area first.
Walnuts	Mites, Scale	1-1.5 gal	Delayed Dormant
	Mites, Scale	0.5-1 gal	Late Spring to mid-summer. Do not apply after husk split. Do not spray oil sensitive varieties.

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**FOR NON-BEARING TREES:\***

CROP	PEST	Rate/100 gal. water	TIMING & REMARKS (See Application/Compatibility Sections also)
Apples Cherries Peaches Pears	Mites	1-2 gal	For mites apply every 10-14 days. Use higher rate and or shorter interval during heavy mite infestation.
	Powdery Mildew	1-2 gal	For powdery mildew control, begin spraying before disease first appears. Spray every 10-14 day days, using at least 200 psi spray pressure and targeting spray for thorough coverage of leaf surfaces. Use higher rate and more frequent interval under heavy disease pressure.

**FOR ORNAMENTAL USE:**

CROP	PEST	Rate/1 gal water	TIMING & REMARKS (See Application/Compatibility Sections also)
Chrysanthemum Diffenbachia Philodendron Poinsettia	Leafminers, Mealybugs, Mites, Scale insects, Whiteflies, Black spot, Powdery Mildew	1 oz	Use ALBUZ® ATR nozzles, lilac color or their equivalent. Apply weekly or every two weeks depending on level of pest infestation. From 20-100 gallons of dilute spray emulsion per acre, depending on plant size. Spray to the point of runoff. Vary quantity of spray applied by changing the number of nozzles used, not by changing spray pressure, speed of sprayer or nozzle size.
Roses		1-2 oz	

**FOR GRASSES GROWN FOR SEED:\***

CROP	PEST	Rate/A	TIMING & REMARKS (See Application/Compatibility Sections also)
Bluegrass Fescues Orchardgrass Perennial Ryegrass	Powdery Mildew, Rust	1-2 gal/A	With ground equipment, apply for thorough coverage when powdery mildew and rust pustules are noticeable and increasing in number, in late spring or early fall. Repeat at 14-21 day intervals. Use higher rate under severe disease pressure. Spray with a minimum of 20 gal/A of water.

**MISCELLANEOUS CROPS:\***

CROP	PEST	Rate/A	TIMING & REMARKS (See Application/Compatibility Sections also)
Peppermint Spearmint	Mites, Powdery Mildew	1-2 gal/A	With ground equipment, apply for thorough coverage when powdery mildew is present or mint 5-6" tall. Repeat at 14-21 day intervals. Use higher rate under severe disease pressure. Spray with a minimum of 20 gal/A of water.

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**FOR CITRUS:\***

CROP	PEST	Rate/100 gal Water	TIMING & REMARKS (See Application/Compatibility Sections also)
Lemons and Grapefruit	Mites Scale including California Red Scale	1-1.4 gal 1-1.6 gal	For best results, spray during Fall, early Winter & Spring months when red scale are more easily controlled and trees generally less reactive to oil. For all citrus oil sprays ensure adequate soil moisture. Leaves should not wilt before noon.
Oranges (Navel & Valencia) Other Citrus Non-Bearing Citrus	Mites (including Rust Mite & Spider Mite) Black Scale California Red Scale, Whitefly & Blackfly Sooty Mold Greasy Spot	1.0-1.4 gal 1.0-1.3 gal 1.3-1.6 gal 1.0-1.3 gal 1.0-1.3 gal 1.0 gal	Oils applied after Oct. may increase cold damage. Oils applied in Aug. and Sept. may affect solids content and retard coloring.

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**CONDITIONS OF SALE AND WARRANTY**

JMS Flower Farms, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. JMS Flower Farms, Inc., MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Critical and unforeseeable factors beyond JMS Flower Farms, Inc. control prevent it from eliminating all risks in connection with the use of this product. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather conditions, presence of other materials, drift to other crops or property, the manner of use or application, or failure to follow label directions will be assumed by the Buyer or User. Handling, storage and use of the product by Buyer and User are beyond the control of JMS Flower Farms, Inc. In no case shall JMS Flower Farms, Inc. be held liable for consequential, special or indirect damages resulting from the use of this product. The limit of JMS Flower Farms, Inc., liability shall be the purchase price for the quantity involved.

EPA Registration No. 65564-1

EPA Establishment No.: 14774-FL-07; 55206-MI-001  
Superscript corresponds to last letter of lot number.



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