



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505P)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

1386-53

AUG 31 2010

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product:

SUPERIOR MISCIBLE  
SPRAY OIL

Name and Address of Registrant (include ZIP Code):

Universal Cooperatives, Inc.  
1300 Corporate Center Curve  
Eagan, MN 55121  
ATTN: Nik Ramswick, Regulatory Affairs

5881317  
676/1275  
5829773  
676/1135

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration, must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Decision, EPA has reregistered the product listed above. This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

The Confidential Statement of Formula (CSF) dated "11/19/2009" for the "Basic Formulation" is accepted and replaces all other CSFs previously accepted for this product.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments in this letter.

**See page 2 for required label changes.**

Submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this Notice or the next printing of the label whichever occurs first, must bear the new revised label. A stamped copy of the label is enclosed for your records. If you have any questions, contact William Jacobs at 703-305-6406 or [jacobs.bill@epa.gov](mailto:jacobs.bill@epa.gov).

Signature of Approving Official:  
Venus Eagle, Product Manager 01  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Date:

AUG 31 2010

**Label Changes**

The comments below indicate additional changes that must be made to the label submitted on August 18, 2010.

1. In the second sentence of the first paragraph in the “**NON-AGRICULTURAL USE REQUIREMENTS**” box (page 3), change “to product” to “to produce”.
2. In the text pertaining to “**SPRAY DRIFT MANAGEMENT**” (page 4), change the subheadings “**GROUND APPLICATIONS**”, “**AIRBLAST APPLICATIONS**”, and “**AERIAL APPLICATIONS**” to “**GROUND APPLICATIONS**”, “**AIRBLAST APPLICATIONS**”, and “**AERIAL APPLICATIONS**”, respectively. These changes are needed to make it clear that the text that comes immediately below “**SPRAY DRIFT MANAGEMENT**” also applies to ground, airblast, and aerial applications. This change is needed to make it clear that all of the text in the first four paragraphs that follow “**SPRAY DRIFT MANAGEMENT**” applies to aerial, ground, and airblast applications.
3. Insert the left-justified subheading “**APPLICATION RESTRICTIONS**” between the second (“The dosage rate ... gallon”) and third (“Do not apply ... spraying”) paragraphs currently below “”. The two paragraphs that are to come under “**APPLICATION RESTRICTIONS**” pertain to applications rather than to mixing.
4. In the last sentence of the third paragraph under “**CONTAINER DISPOSAL:**” in the “**STORAGE AND DISPOSAL**” text (page 6), insert “, or puncture and dispose of in a sanitary landfill; ” between “available” and “or”.
5. On page 7, delete references to all trademarks that are not mentioned elsewhere on the label (e.g., in the “**DIRECTIONS FOR USE**” section).

# SUPERIOR MISCIBLE SPRAY OIL

**For Dormant and Foliage Applications**

KEEP OUT OF REACH OF CHILDREN  
**CAUTION**  
Refer To Inside Of Label Booklet For Additional Precautionary Statements, First Aid Statement, Worker Protection Statements, Directions For Use, Storage and Disposal Instructions, and Warranty and Limitation of Damages.

**ACTIVE INGREDIENT:**

Mineral Oil\* ..... 100%

\*Contains Petroleum Distillates.

Highly Refined Unsulfonated Residue of Petroleum Distillate – 98%

Viscosity of Oil-60/Unclassified FC 412-66

Weight per Gallon – 7.1 Lbs.

NET CONTENTS: 1 Gallon

EPA Reg. No. 1386-53  
EPA Est. No. 1386-OH-1

UNIVERSAL COOPERATIVES, INC. EAGAN, MN 55121

ACCEPTED  
With COMMENTS  
In EPA Letter Dated:

AUG 31 2010

Under the Federal Insecticide, Fungicide  
and Rodenticide Act, As amended, for the  
pesticide Registered under EPA Reg. No:

1386-53

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

Caution. Harmful if swallowed. Avoid breathing of spray mist. Avoid contact with skin, eyes, or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, nitrile rubber, neoprene rubber and viton. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators, flaggers, and other handlers must wear:**

- Long-sleeved shirt and long pants,
- Shoes plus socks, and
- Chemical-resistant gloves.

See Engineering Controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

**Engineering Controls:** Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

<b>USER SAFETY RECOMMENDATIONS</b>	
	<ul style="list-style-type: none"> <li>● Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>● Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>● Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.</li> </ul>

<b>FIRST AID</b>	
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>● Immediately call a poison control center or doctor.</li> <li>● Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>● Do not give any liquid to the person.</li> <li>● Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If On Skin or Clothing:</b>	<ul style="list-style-type: none"> <li>● Take off contaminated clothing.</li> <li>● Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>● Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>● Move person to fresh air.</li> <li>● If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth.</li> <li>● Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If In Eyes:</b>	<ul style="list-style-type: none"> <li>● 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.</li> <li>● Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24 Hour Medical Emergency assistance (Human or Animal) call 1-800-308-1241 or for Chemical Emergency Assistance (Spill, Leak, Fire or Accident) call CHEMTREC at 1-800-424-9300.</p>	
<p><b>Note to Physician: This product contains petroleum distillates and may pose an aspiration pneumonia hazard.</b></p>	

**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 the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply when weather conditions favor drift of spray from area treated. Do not use where runoff may occur as a result of heavy rain.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not store, use, or spill near heat or open flame. Do not weld, heat, or drill container. Residue may ignite with explosive violence if heated sufficiently.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. 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.

**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 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.

Do not enter or allow worker entry into treated areas during the 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 soil or water, is:

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

**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 product agricultural plants on farms, forests, nurseries, or greenhouses.

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

**DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.**

**SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

**Wind Speed:** Do not apply at wind speeds greater than 15 mph at the application site.

**Temperature Inversions:** If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

**Droplet Size:** Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume mean diameter (VMD) for spinning atomizer nozzles.

**GROUND APPLICATIONS**

**Release Height:** Apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

**Wind Speed:** Do not apply at wind speeds greater than 15 mph at the application site.

**Droplet Size:** Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume mean diameter (VMD) for spinning atomizer nozzles.

**AIRBLAST APPLICATIONS**

For airblast applications, turn off outward-pointing nozzles at row ends and when spraying outer row. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

**AERIAL APPLICATIONS**

**Release Height:** For aerial applications of agricultural products, do not release spray at a height greater than 10 feet above the ground, top of crops, or above the orchard canopy.

**Wind Speed:** Do not apply at wind speeds greater than 15 mph at the application site.

**Boom Length:** The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

**Swath Adjustment:** When applications are made with a cross wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind. Leave at least one swath unsprayed at the downwind edge of the treated field.

**Droplet Size:** Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume mean diameter (VMD) for spinning atomizer nozzles.

**MIXING DIRECTIONS**

Fill spray tank about one-third full with water, pour in the required amount of Superior Miscible Spray Oil, stir or agitate thoroughly and fill remainder of tank with water. Some agitation is required to maintain the emulsion while spraying.

The dosage rate of 2 gallons per 100 gallons of water is equivalent to 1/2 pint per 3 gallons, or 5 1/2 tablespoons per gallon.

Do not apply in freezing weather or when temperature is likely to drop to near-freezing soon after spraying.

Do not apply to broadleafed evergreens when near-freezing temperatures are expected within 3 weeks. Do not apply during or immediately before hot, dry weather. Do not apply to plants suffering from drought. Do not apply within 30 days before or after application of sulphur.

**DECIDUOUS FRUIT TREES**

During the dormant or delayed-dormant period, to control scale insects and eggs of European red mite, clover mite, apple rust mite and fall cankerworm on apples, pears, cherries, peaches, and **plums**, use 2 gallons per 100 gallons of water and apply spray thoroughly to twigs, branches, and trunks early in the spring, on bright clear days when the temperature is above 45° F. during the time from just before growth starts until the young leaves are not more than 1/2 inch in length.

During the summer when foliage is present, use 2 gallons per 100 gallons of water and apply spray thoroughly to foliage and branches to control scale insects, two-spotted mite, red bug, and thrips. Apply when insects first appear, preferably before they cause noticeable damage, and repeat at 30-day intervals, if necessary until not more than 3 applications have been made during the growing season.

**ORNAMENTAL SHADE TREES AND HARDY SHRUBS**

During the dormant or delayed-dormant period to control scale insects and eggs of European red mites on ornamental deciduous shade trees and hardy ornamental shrubs, use 2 gallons per 100 gallons of water and apply spray thoroughly to twigs, branches, and trunks, early in the spring, on bright, clear days when the temperature is above 45° F. just before growth starts.

During the summer period when foliage is present, use 2 gallons per 100 gallons of water, and apply spray thoroughly to foliage and branches to control scale insects, whiteflies, mealybugs, thrips, and two-spotted mites. Apply when insects first appear, preferably before they cause noticeable damage, and repeat at 30-day intervals, if necessary until not more than 3 applications have been made during the growing season.

**HARDY HOUSE PLANTS**

As a general conditioner and plant polish for hardy house plants, use 2 tablespoonsful per gallon of water and apply spray lightly to foliage.

**GREENHOUSES**

To control scale insects, two-spotted mites, mealy bugs, and whitefly on azaleas, camellias, gardenias, and other **hardy** plants, use 1 1/2 to 2 tablespoonsful per gallon of water and apply spray uniformly to branches

and foliage. Do not apply sprays closer than 60 days apart and do not make more than 3 applications per season.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep away from sources of heat or flame.

**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: Nonrefillable containers 5 gallons or less: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. 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. 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. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.**

**Nonrefillable containers larger than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If recycling or reconditioning is not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. 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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. 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.**

**Refillable containers larger than 5 gallons: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or by other procedures allowed by State and local authorities.**

-OR-



**Refillable Container:** Refill the container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps. Contact Universal Cooperatives, Inc.'s Customer Service Department at 1-651-239-1000 to arrange for return of the empty refillable container or rinse and either recycle or dispose of the container as follows: Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Once the container is rinsed, 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.

**IMPORTANT: READ BEFORE USE**

Read the entire Directions For Use and Warranty and Limitation of Damages 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 and Warranty and Limitation of Damages.

**WARRANTY AND LIMITATION OF DAMAGES**

Universal Cooperatives, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the complete Directions For Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

**To the extent consistent with applicable law,** Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

To the extent consistent with applicable law, Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this Warranty and Limitation of Damages which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

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