



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 11, 2023

Nancy Wright  
Product Development Specialist  
HollyFrontier Refining and Marketing LLC  
401 Plymouth Road, Suite 350  
Plymouth Meeting, PA 19462

Subject: Registration Review Label Mitigation for Aliphatic Solvents  
Product Name: SUNSPRAY 7E  
EPA Registration Number: 86330-3  
Application Date: 5/25/2020  
Decision Number: 563309

Dear Nancy Wright:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Aliphatic Solvents Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently

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approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Quinn Gavin at [gavin.quinn@epa.gov](mailto:gavin.quinn@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

# SUNSPRAY® 7E

{Marketing Statement} A Superior horticultural spray oil.

**Active Ingredient:**

Mineral Oil\*.....98.8 wt%

**Other Ingredient:**

Emulsifier.....1.2 wt%

**Total**.....100.0 wt%

\*Un sulfonated Residue of Mineral Oil.....92.0% min

\*50% Distillation Point of Mineral Oil.....435.0°F

\*Flash Point.....345.0°F

Weight per Gallon.....7.1 lbs

*\*Contains petroleum distillates*

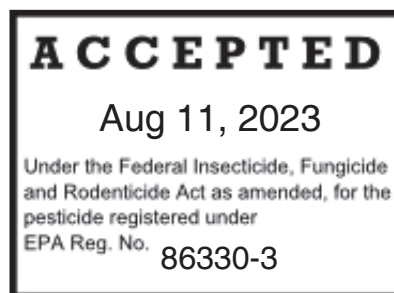
**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**See Additional Precautionary Statements Inside Booklet.  
See Directions for Use inside Booklet.**

**EPA Reg. No. 86330-3  
EPA Est. No. 86330-OK-1  
NET CONTENTS: 55 Gallons  
Batch/Lot Number: \_\_\_\_\_**

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#3 SS5218 102810 (052520 ID and Updated)



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**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### FIRST AID

**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 swallowed:**

- Call a poison control center or doctor immediately for treatment advice.
- DO NOT INDUCE VOMITING unless told to do so by a poison control center or doctor.
- Do not give **any** liquid to the person.
- Do not give anything by mouth to an unconscious person.

**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 inhaled:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also call 1-918-594-6000 for emergency medical treatment information, 24/7, or a poison control center at 1-800-222-1222.

**NOTE TO PHYSICIAN**

Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Aspiration may occur after swallowing or vomiting and results in serious, and sometimes delayed, lung injury.

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals.

**CAUTION:** Harmful if absorbed through skin, swallowed or inhaled. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Remove and wash contaminated clothing before use. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

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## PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

- Long-sleeve shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves made of Barrier Laminate, Nitrile Rubber  $\geq$  14 mils, Neoprene Rubber  $\geq$  14 mils or Viton  $\geq$  14 mils.

**User Safety 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.

## USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

**Engineering Control Statements:** 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**

This product is toxic to aquatic invertebrates. 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 wash water or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Avoid drift or run off into storm drains, drainage ditches, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to maximize the chances that wind, or rain will not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

## **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 through any type of irrigation system. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Do not apply this product in a way that will contact adults, children or pets, 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 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, shoes plus socks, and chemical-resistant gloves made of any waterproof material, such as Barrier Laminate, Nitrile Rubber  $\geq$  14mils, Neoprene Rubber  $\geq$  14 mils or Viton  $\geq$  14 mils.

### **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 produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter until sprays have dried.

### **USE SITE RESTRICTIONS**

This product may only be used on the following crops: apples, pears, pecans, peaches, sweet corn, field corn, sugar beets, and citrus (oranges, grapefruit and lemons only).

### **PESTS CONTROLLED**

This product may be used to control mite and insect pests in the egg stage including; spider mites, eriophyid mites, armored scale, soft scale, mealybugs, psyllids, whiteflies, aphids, leafrollers, leaf tiers, webworms, cankerworms, plant bugs, leafhoppers and adelgids. This product also kills other immature insect forms if spray covers the entire insect. See the application rate tables for species claimed to be controlled on specific crops.

## **MIXING DIRECTIONS**

1. Add sufficient water to the mixing tank to allow proper agitation by pump or paddles.
2. Add other pesticides that are to be part of the mix. If a wettable powder formulation is to be added, mix the water and powder thoroughly so that the powder is totally suspended in the water before the oil is added. If other pesticide to be added is an emulsifiable formulation, do so after the oil and water has been thoroughly mixed.
3. Add oil under agitation when tank is 3/4 full topping off with water to form milky solution.
4. Maintain agitation until solution is used.
5. In small equipment lacking agitators, stir or shake diluted spray frequently during application.
6. Read and follow all directions and restrictions on the labels of the proposed tank-mix products.
7. Flush fluid in sprayer hose lines back into tank reservoir if fluid is allowed to stand for more than 20 minutes.

## **APPLICATION INSTRUCTIONS**

The target pest must be completely covered with spray. Oil residue on the plant surface often acts as a feeding and oviposition deterrent. However, the primary target is the pest itself as oil is a contact pesticide. Spray only when the temperature is above 40°F and there is no danger of freezing.

## **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

## **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### **CONTROLLING DROPLET SIZE - Ground Boom**

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift

### **BOOM HEIGHT - Ground Boom**

- For ground equipment, the boom should remain level with the crop and have minimal bounce.
- For ground based equipment - Apply using a nozzle height of no more than 4 feet above the ground or crop canopy. Do not apply at wind speeds greater than 15 mph at the application site. Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume mean diameter (VMD) for spinning atomizer nozzles.

### **SHIELDED SPRAYERS**

- Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **CONTROLLING DROPLET SIZE - Aircraft**

- Adjust Nozzles - Follow nozzle manufacturer recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

### **RELEASE HEIGHT - Aircraft**

- Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.
- The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- 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.

### **TEMPERATURE AND HUMIDITY**

- When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

### **WIND**

- Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.** Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.
- Do not apply at wind speeds greater than 15 mph at the application site
- 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.

### **BOOM-LESS GROUND APPLICATION**

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift

### **HANDHELD TECHNOLOGY APPLICATIONS**

- Take precautions to minimize spray drift.

**AIRBLAST EQUIPMENT APPLICATION:** 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:** Use only as an emergency application when soil conditions do not permit regular ground application on deciduous fruit and nut trees. Apply quantity of product shown for each listed crop for control of listed insects in sufficient water to make a minimum of 20 gals, dilute spray per acre.

### **TIMING THE TREATMENT**

Applicator must determine the precise timing to fit local growth and climatic conditions. **DO NOT EXCEED MAXIMUM RATES OR APPLY MORE OFTEN THAN SPECIFIED ON THIS LABEL.**

### **CITRUS**

Oils applied after October may increase cold damage to trees. Oils applied in August and September may affect solids content and retard coloring.

### **USE PRECAUTIONS**

Keep oil container tightly closed in storage to prevent entry of water. Store drum on its side. Roll drum before use. All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. Phytotoxicity may result if sprayed to plants during periods of prolonged high temperature and high relative humidity. Do not spray plants under moisture stress.

Do not use in combination with or immediately before or after spraying with the following list of representative pesticides with Sunspray, however this list is not exhaustive; Dinitro compounds, fungicides such as captan (Captan), cyprex (Dodine), chlorothalonil (Bravo), dimethoate (cygon), folpet (Folpet), propargite (Omite), lime sulfur, wettable sulfur or any other product containing sulfur. For fungicides not included in this listing, consult the label of the specific fungicide formulation for compatibility information



when used with oil. Consult your local extension agent for local recommendations relative to a specific fungicide/oil mix on a specific crop. Keep spray equipment used for these other products separate from the equipment used for Sunspray. Do not use with Sevin brand 50W carbaryl on deciduous fruit trees.

**TANK MIXES:** Read and follow all directions and restrictions on the labels of the proposed tank-mixed products. Check tank mixture for physical and chemical compatibility, Mix only enough material to do the job.

This product may be used:

1. as a carrier for *Bacillus thuringiensis* when applied through a mist blower or cold fog machine.
2. in a tank mix with Lorsban on apples, pears, peaches, pecans, sweet corn and field corn.
3. as a spreader or carrier for some synthetic organic insecticides that are applied to plants growing in and on habitable buildings.

<b>Crop</b>	<b>Insect Control Aid</b>	<b>Application Rate</b> Dilute Spray Gal. Sunspray 7E. In 100 water.	<b>Time of Application</b> (Stage of Development)
<b>Apples</b>	Apple Red Bug  European Fruit Lecanium Scale  Fruit Tree Leaf Roller  European Red Mite  San Jose Scale  Scurfy Scale	2  2  3  2  2  3	Dormant  Dormant  Dormant  Green Tip to Delayed Dormant 1/2" Green  Delayed Dormant 1/2" Green  Delayed Dormant 1/2" Green Apple Applications at 100-600 gals dilute spray solution per acre.
<b>Pears</b>	Fruit Tree Leaf Roller Pear leaf Blister Mite Pear Psylla	3 3 2	Dormant  Dormant Late Dormant Pear Applications at 100-600 gals dilute spray solution per acre.
<b>Pecans</b>	Obscure Scale	3	Dormant Pecan Applications at 100-500 gals dilute spray solution per acre.
<b>Peaches</b>	Cottony Peach Scale	3	Dormant Peach Applications at 100-500 gals dilute spray solution per acre.
<b>Sweet Corn Field Corn</b>	Ear Worms Fall Army Worm Corn Root Worm	2	Spring -Early  Corn Applications at 50-100 gals dilute spray solution per acre.
<b>Sugar Beets</b>	Mites Leaf Miner	2 Gals Sunspray 7E in 100 gals water. 50-100 gals dilute spray solution per acre	As needed

<b>Crop</b>	<b>Insect Control Aid</b>	<b>Dilute</b> Gals. Sunspray 7E in 100 Gal water. 500- 2000 gals dilute spray solution per acre	<b>Concentrate*</b> Gals Sunspray 7E in 45-125 gals water per acre
<b>Citrus*</b>	Citrus Rust Mite Scale Insects Greasy Spot Disease	1	10
	Spider Mites Whitefly Loosens Sooty Mold	0.5	5

**\*Apply in sufficient water and manner to assure thorough distribution.**

\* The maximum application rate for citrus in Texas and Florida is 159 pounds active ingredient per acre (maximum 1500 gallons of spray mix per acre), and, in California, 212 pounds active ingredient per acre (maximum 2000 gallons of spray mix per acre)

# **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Storage:** Store in a cool, dry, locked area out of the reach of children. Keep oil container tightly closed in storage to prevent entry of water.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling: Rigid, nonrefillable plastic or metal containers greater than 5 gallons:**

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or (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.

**Rigid, nonrefillable plastic or metal containers equal to or less than 5 gallons:** Nonrefillable container. Do not reuse or refill the container. Offer for recycling, if available. Triple rinse (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.

**Plastic containers:** Offer for recycling. If recycling is not available, puncture and dispose of container in a sanitary landfill or by incineration.

**Metal containers:** Offer for recycling. If recycling is not available, puncture and dispose of container in a sanitary landfill, or by other procedures approved by State and Local authorities.

## **LIMITED WARRANTY AND LIABILITY**

This product conforms to the description and is suitable for the uses set forth on this label but is strictly limited to those uses solely as directed under the specified label conditions, and only if purchased in the original unopened container. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER AND SELLER DISCLAIM ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE** (except as specified on this label). Buyer and all users shall assume all risk, liability and damage if this product is used, stored, handled or applied other than as specifically set forth on this label. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LIABILITY OF MANUFACTURER AND SELLER AND USER'S REMEDIES SHALL BE LIMITED TO REFUND OF THE PURCHASE PRICE OR REPLACEMENT OF THE SPECIFIC QUANTITY INVOLVED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

**Note:** This pesticide is to be sold only in this original unopened container.

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