



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 9C
EPA Registration Number: 86330-12
Application Date: 5/27/2020
Decision Number: 563314

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.

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® 9C

{Marketing Statement} A Superior horticultural spray oil to be applied only by chemigation.

Active Ingredient:

- Mineral Oil*.....100.0 wt%
- *Unulfonated Residue of Mineral Oil.....92.0% Min
- *50% Distillation Point of Mineral Oil.....455.0°F
- *10%-90% Distillation Range of Mineral Oil.....80.0°F Max
- *Flash Point.....375.0°F
- Weight per Gallon.....7.2 lbs
- *Contains petroleum distillates*

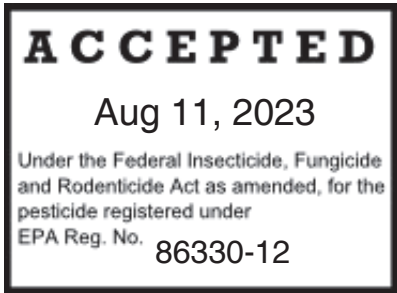
**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

EPA Reg. No. 86330-12
EPA Est. No. 86330-OK-1
NET CONTENTS: _55 Gallons_
Batch/Lot Number: _____

HollyFrontier Refining & Marketing LLC
401 Plymouth Road
Suite 350
Plymouth Meeting, PA 19462
800-456-4786

#12 SS-5222 020112 (052720) (ID and Updated)



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KEEP OUT OF REACH OF CHILDREN

CAUTION

**Si usted no entienda la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail).**

FIRST AID
If on skin or clothing: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <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, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER <p>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.</p>
NOTE TO PHYSICIAN <p>Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Aspiration may occur after swallowing or vomiting and results in serious, and sometimes delayed, lung injury.</p>

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 reuse. 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 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.

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), restricted-entry interval and notification to workers. 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.

USES

SUNSPRAY 9C may only be applied via chemigation and may be applied at application rates of 2 to 3 gallons per acre in 0.1 to 0.3 inches of water to control the immature stages of scale insects, aphids and thrips and to suppress mite populations. SUNSPRAY 9C may only be used in that manner on the following crops:

<u>Apples</u>	<u>Cotton</u>	<u>Pepper (Sweet & Jalapeno)</u>	<u>Tomatoes</u>
<u>Broccoli</u>	<u>Cucumber</u>	<u>Potatoes</u>	<u>Turnips</u>
<u>Cabbage</u>	<u>Eggplant</u>	<u>Snap Beans</u>	<u>Watermelon</u>
<u>Cantaloupe</u>	<u>Lima Beans</u>	<u>Sorghum</u>	<u>Yellow Squash</u>
<u>Cauliflower</u>	<u>Mustard</u>	<u>Southern Peas</u>	
<u>Citrus</u>	<u>Onions</u>	<u>Soybeans</u>	
<u>Collards</u>	<u>Peaches</u>	<u>Spinach</u>	
<u>Corn</u>	<u>Peanuts</u>	<u>Tobacco</u>	

When used as indicated above, SUNSPRAY 9C can be tank-mixed with the following pesticides if each additional pesticide product used has a label which allows it to be applied via chemigation to the specific crop that is to be treated: Atrazine, Bacillus thuringiensis, Bifenthrin, Chlorpyrifos, Chlorothalonil, Cyfluthrin, Cypermethrin, Diazinon, Esfenvalerate, Malathion, Mancozeb, Metolachlor, Metribuzin, Pendimethalin, Permethrin, Prometryn, Simazine, Trifluralin.

Do not exceed the range of application rates indicated above, whether using this product by itself or in combination with another pesticide. Within that range, consult labels for the products to be used in combination with SUNSPRAY 9C to determine the rate appropriate for the crop to be treated and the pests to be controlled. Follow all other application directions indicated on this labeling, including the specific statements pertaining to chemigation and sprinkler chemigation applications.

CHEMIGATION USE STATEMENTS

- A. Apply this product only through the following types of systems: Sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, and big gun. Do not apply this product through any other type of irrigation system. In all irrigation systems listed, the water must be flowing in excess of 4"/second past the injection point of the oil.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- C. If you have questions about calibration, you should contact State Extension Service Specialist, equipment manufacturers or other experts.
- D. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.
- E. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- F. The check valve or back flow prevention valve must be designed so the internal parts can be inspected.
- G. A low pressure drain shall be placed between the check valve and the water source.

FOR SPRINKLER CHEMIGATION

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

DO NOT APPLY THIS PRODUCT IN A CHEMIGATION SYSTEM THAT IS CONNECTED TO A PUBLIC WATER SYSTEM.

DO NOT USE IN A DRIP (TRICKLE) CHEMIGATION SYSTEM.

USE PRECAUTIONS

Do not apply when plants are in or near wilting. Observe all cautions and limitations on labels of products recommended for mixture with oil that can be applied through an irrigation system.

DO NOT MIX THIS PRODUCT IN A SUPPLY TANK WITH WATER SOLUTIONS OF CHEMICALS SUCH AS FLUID FERTILIZERS. FOLLOW DIRECTIONS ON THE PESTICIDE CONTAINER.

IF THIS PRODUCT IS GOING TO BE USED AS A CARRIER FOR OTHER PESTICIDES, CONSULT THE INSTRUCTIONS FOR THAT SPECIFIC PESTICIDE AS TO COMPATIBILITY AND DIRECTIONS FOR USE AND MIXING.

DO NOT PREMIX THIS PRODUCT WITH WATER PRIOR TO ITS USE IN A CHEMIGATION SYSTEM. THIS PRODUCT SHOULD BE METERED CONTINUOUSLY AND IS TO BE APPLIED FOR THE ENTIRE DURATION OF THE WATER APPLICATION.

Keep oil container tightly closed in storage to prevent entry of water. All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. Phytotoxicity may result if applied to plants during periods of prolonged high temperature and high relative humidity. Do not apply to plants under stress (i.e. drought, disease). Do not apply immediately prior to, during or following unusually cold weather or freezing temperatures.

CITRUS

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

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).

TIMING THE TREATMENT

You must determine the precise timing to fit local growth and climatic conditions. **DO NOT EXCEED MAXIMUM RATES OR APPLY IN A MANNER INCONSISTENT WITH THIS LABELING.**

APPLICATION INSTRUCTIONS

The target pest must be completely covered by this product. 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. Apply 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.

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

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.

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.

**HollyFrontier Refining & Marketing LLC
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800-456-4786**

#12 SS-5222 020112 (052720) (ID and Updated)