

BERRIES (BLACKBERRY AND RASPBERRY) - CANE AND LEAF RUST, ORANGE RUST, ETC.

General Information

Product Information

Rally 40WSP fungicide is a systemic, protectant and curative fungicide for the control of specific diseases mentioned on this label. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventive spray program.

Restriction

- Do not apply this product in greenhouses.

Fungicide Resistance Management

Rally 40WSP belongs to the sterol demethylation inhibitor (DMI) class of fungicides and is classified as Group 3 Fungicide by EPA. Since certain fungi can develop resistance to this class of products, the use of Rally 40WSP should be part of a resistance management strategy that includes alternation and/or tank mixing with another fungicide mode of action. After two consecutive applications of Rally 40WSP, another myclobutanil product or another DMI, rotate to a product that is effective on the target pathogen and has a mode of action different from Rally 40WSP. Apply the alternate products within the intervals specified on the label for Rally 40WSP. Do not apply Rally 40WSP at rates below those specified on the label. If tank mixing, use the full label rate of Rally 40WSP with the full label rates of other products effective on the target pest. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statement of each product in the tank. Consult your local or state agricultural authorities for resistance management strategies that are appropriate for your disease management program.

To delay development of fungicide/bactericide resistance, consider the following practices:

- Avoid the consecutive use of Rally 40WP or other target site of action Group 3

fungicides/bactericides that have a similar target site of action on the same pathogens.

- Use tank mixtures or premixes with fungicides/bactericides from different target site of action groups as long as the involved products are all registered for the same use and are both effective at the tank mix or prepack rate on the pathogen(s) of concern.
- Base fungicide/bactericide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitor treated fungal/bacterial populations for loss of field efficacy.
- Contact your local extension specialist, certified crop advisors, and/or manufacturer for fungicide/bactericide resistance management and/or IPM recommendations for specific crops and resistant pathogens.
- For further information or to report suspected resistance, you may contact your local Dow AgroSciences representative or by calling 800-258-3033.

Handling Directions for Water Soluble Packets: Water Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be use, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Protection Standard [40 CFR 170.607(d)].

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
3. Keep the WSP(s) in out packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. Do not cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

Compatibility

Rally 40WSP is compatible with most commonly used agricultural fungicides, insecticides, growth regulators, micronutrients and spray adjuvants. When preparing tank mixes, user should consult spray compatibility charts or State

Cooperative Extension Service Specialists prior to actual use. When an adjuvant is to be used with this product, Dow AgroSciences recommends the use of an appropriate Chemical Producers and Distributors Association certified adjuvant.

Note: Rally 40WSP is compatible with boron and spray oils; however, the water soluble pouches must be completely dissolved before adding spray oils or products containing boron to spray mixtures.

Application Directions

Carefully read, understand and follow label use rates and restrictions. Scout crops on a regular basis and treat when disease first appears or when conditions favor disease development. Use lower label rates and 14-day application intervals for small plants and under low disease pressure conditions. Use maximum label rates and shorter application intervals for large plants and for severe or threatening disease conditions. If reliable predictive modeling (risk index) systems are available, these can help to indicate disease pressure conditions.

Ground Application

Thorough coverage sprays generally result in optimum disease control. To achieve good coverage use proper spray pressure, gallons per acre, nozzles, nozzle spacing and tractor speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

Aerial Application

Apply in a minimum of 5 gallons of water per acre unless otherwise directed in specific use sections that follow. Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Disease control may be reduced if uniform coverage is not obtained.

Chemigation Application

Rally 40WSP must be applied on a regular protectant fungicide schedule, not an irrigation schedule. If irrigation cycles are less frequent than the application intervals for Rally 40WSP, ground or aerial applications must supplement chemigation applications to achieve adequate disease control.

Directions for Sprinkler Chemigation: Apply this product only through center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.

Chemigation Equipment Preparation: The following use directions are to be followed when this product is applied through irrigation systems. Thoroughly clean the chemigation system and tank of any fertilizer or chemical residues, and dispose of the residues according to state and federal laws. Flush the injection system with soap or a cleaning agent and water. Determine the amount of Rally 40WSP needed to cover the desired area. Mix according to instructions in the Mixing Directions section. Continually agitate the mixture during mixing and application.

Center Pivot, Lateral Move, End Tow, and Traveler Irrigation Equipment Calibration (use only with electric or oil hydraulic drive systems that uniformly distributes water): In order to calibrate the irrigation system and injector to apply the mixture containing this product, determine the following: 1) Determine area covered by sprinkler; 2) Determine the time required to apply no more than 1/4 inch water (6,750 gallons of water per acre) over the area to be treated when the system and injection equipment are operated at normal pressures specified by the equipment manufacturer. Run system at 80 to 95% of manufacturer's rated capacity.; 3) Using only water, determine the injection pump output when operated at normal line pressure; 4) Determine the amount of Rally 40WSP required to treat the area covered by the irrigation system; 5) Add the required amount of Rally 40WSP and sufficient water to meet the injection time requirements of the solution tank. Maintain constant solution tank agitation during the injection period. Operate system at normal pressures specified by the manufacturer of the injection equipment and used for the time interval established during calibration. Inject this product at the end of an irrigation cycle or as a separate application to maximize foliar absorption and retention. Stop injection equipment after treatment is completed. Continue to operate the system until the solution with Rally 40WSP has cleared the sprinkler head. Do not use end guns when applying Rally 40WSP through center pivot systems because of non-uniform application.

Solid Set, Side (Wheel) Roll, and Hand Move Irrigation Equipment Calibration: In order to calibrate the irrigation system and injector to apply the mixture containing this product, determine the following: 1) Determine area covered by sprinkler; 2) Fill

injector solution tank with water and adjust flow rate to use contents over a 10- to 30 minute interval; 3) Determine the amount of Rally 40WSP required to treat the area covered by the irrigation system; 4) Add the required amount of Rally 40WSP into the same quantity of water used to calibrate the injection equipment. Maintain constant solution tank agitation during the injection period. Operate the system at normal pressures specified by the manufacturer of the injection equipment and used for the time interval established during calibration. Inject Rally 40WSP at the end of the irrigation cycle or as a separate application to maximize foliar fungicide retention. Stop injection equipment after treatment is completed. Continue to operate the system until the solution of Rally 40WSP has cleared the last sprinkler head.

Chemigation Operation: Start the water pump and irrigation system, and let the system achieve the desired pressure and speed before starting the injector. Make sure the system is fully charged with water before starting injection of Rally 40WSP. Time the injection to last at least as long as it takes to bring the system to full pressure. Check for leaks and uniformity and make repairs before any chemigation takes place. Start the injection system and calibrate according to manufacturer's specifications. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injection system to be thoroughly flushed clean before stopping the system.

Chemigation Equipment Requirements:

- The system must contain an air gap, an approved backflow prevention device, a functional check valve, vacuum relief valve (including inspection port), and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. Refer to the American Society of Agricultural Engineer's Engineering Practice 409 for more information or state specific regulations.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.
- The system must contain functional interlocking controls to automatically shut off

the pesticide injection pump when the water pump motor stops.

- 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.
- To ensure uniform mixing of the fungicide in the water line, inject the mixture in the center of the pipe diameter or just ahead of an elbow or tee in the irrigation line so that the turbulence created at those points will assist in mixing. The injection point must be located after all backflow prevention devices on the water line.
- Ensure the tank holding the fungicide mixture is free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injector point.
- 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 back flow.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

Chemigation Precautions:

- Crop injury, lack of fungicidal effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- If you have questions about calibration, contact State Extension Service specialist, equipment manufacturers or other experts.
- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall operate the system. This operator is responsible for continuously monitoring the injection and making any necessary adjustments to the equipment.

Chemigation Restrictions:

- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone (RPZ), back flow preventer or the functional equivalent in

the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.

- The pesticide injection pipeline must 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.

- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

- 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.

- Do not connect an irrigation system used for pesticide application (including greenhouse systems) to a public water system unless the pesticide label-prescribed safety devices for public water system are in place with current certification.

Specific local regulations may apply and must be followed.

- Do not apply when wind speed favors drift beyond the area intended for treatment. End guns must be turned off during the application if they irrigate nontarget areas.

- Do not allow irrigation water to collect or run off and pose a hazard to livestock, wells, or adjoining crops.

- Do not enter treated area during the restricted entry interval (REI) specified in the Agricultural Use Requirements section unless the required early entry PPE is worn.

- Do not apply through sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units.

Rotational Crop Restriction

Crops on this label may be planted immediately after the last treatment. Do not plant other crops within 30 days after the last application.

Note: When using Rally 40WSP with other registered pesticides, always refer to rotational restrictions and precautions on the other product's label and comply with the most restrictive rotational guidelines.

Use Directions for Tree Fruits

Best control of labeled diseases is achieved when Rally 40WSP is applied on a 7- to 10-day application schedule.

Rally 40WSP is a systemic fungicide and does not redistribute with rainfall after application. Adjust application equipment spray nozzles to apply a uniform spray throughout the entire tree canopy.

Use the following as guidance in determining the amount of Rally 40WSP to be used per 100 gallons of spray or per acre. Refer to specific tree fruit use directions to determine actual use rates for the control of labeled diseases.

Determination of Use Rates on an Acre Basis

The amount of Rally 40WSP required per acre varies with tree size and the volume of fruit and foliage to be treated. Use the following summary table as additional guidance for the determination of appropriate per acre use rates for Rally 40WSP (see table in the label).

Concentrate Spray Applications

Use Rally 40WSP at the specified use rate per acre in either dilute or concentrate sprays. Use the following formula to determine the equivalent amount of product per acre in 2X, 3X, etc., spray solutions (see formula in the label).

Dilute, Thorough Coverage Application

Dilute thorough coverage applications are based upon the amount of spray solution required to thoroughly wet trees until spray run-off. The following specific use directions for apple and mayhaw utilizes a 400 gallon per acre dilute basis and the specific use directions for stone fruits utilizes a 250 gallon per acre dilute basis.

Limitations, Restrictions, and Exceptions

BLACKBERRY AND RASPBERRY

Use Directions

- Begin applications as early as bud break. Reapply at 10- to 14-day intervals, depending upon the disease(s) to be controlled.
- Use the shorter spray interval under heavy disease pressure.

Restrictions

- Preharvest Interval: Applications may be made up to the day of harvest
- Do not apply more than a total of 10 oz of Rally 40WSP (0.25 lb ai) per acre per year.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

[field_rates 0](#)

[field_rates 1](#)

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Restricted Entry Interval

24 hours

Timings

[As early as bud break.](#)