

# Summer Bunch Rot (Sour Rot)

## About Sour Rot

Sour rot is a late-season grape disorder that develops when berries reach ~15 Brix. It's caused by a combination of yeast and bacteria entering damaged fruit and spread primarily by *Drosophila spp.* High temperatures accelerate development.

Sour rot presents as soft, discolored, and decaying berries with a distinctive vinegar odor. Botrytis may appear as a secondary infection.

## OxiDate 5.0 Application Program

Disease Conditions	Rate/ 100 gal	% v/v	Spray Schedule
First Sign of Symptoms	64 fl. oz.	0.5	7-10 days
Severe	1 gallon	1	3-5 days

## Application Notes

Compatible Insecticides*	Compatible Fungicides*	
	Conventional	Organic
<ul style="list-style-type: none"> <li>Baythroid</li> <li>Radiant SC</li> <li>Mustang</li> </ul>	<ul style="list-style-type: none"> <li>Quadris Top</li> <li>Merivon</li> <li>Luna Sensation</li> <li>Abound</li> <li>Quash</li> <li>Pristine</li> <li>Inspire</li> <li>Palladium</li> <li>Switch</li> </ul>	<ul style="list-style-type: none"> <li>Regalia</li> <li>Ph-D</li> </ul>

## Disease Management with OxiDate 5.0

Due to the complex nature of sour rot, effective management requires using products that target bacteria, yeast, and fruit flies. OxiDate 5.0 provides reliable control of the bacterial component of sour rot and suppresses secondary botrytis infections.

It can be applied alone or in a tank mix and is suitable for use through harvest. Its active ingredients have no known resistance, supporting repeated applications with consistent efficacy.

- To manage sour rot, begin applications when brix content reaches 15. OxiDate 5.0 can also be applied preharvest for postharvest decay control
- Use OxiDate 5.0 at 0.5-1% (64 to 128 fl oz/100 gallons of water) on a 7- to 10-day spray interval
- Include an insecticide for *Drosophila spp.* control for improved management of sour rot

## Additional Resources

- Midwest Fruit Pest Management Guide 2021-2022
- University of California Agriculture and Natural Resources. (n.d.). Summer Bunch Rot (Sour Rot) – Grape Pest Management Guidelines. UC Statewide Integrated Pest Management Program Accessed July 7, 2025.
- \*OxiDate 5.0 Tank Mix Compatibility Guide



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For optimal performance, ensure thorough coverage of upper/lower foliage. Apply 100-200 gallons per acre of spray solution. Use a non-ionic surfactant. \*Please refer to the OxiDate 5.0 Tank Mix Compatibility Guide.