

# GRANULAR FORMULATIONS

A granular is a dry formulation consisting of discrete particles generally less than 10 cubic millimeters and designed to be applied without a liquid carrier (Weed Science Society of America WSSA). Granular herbicides are often used in horticultural nurseries and a number of granular herbicides are on the market. We have selected 12 granular herbicides that have potential for use in hardwood nurseries. Although some have potential for use in pine nurseries, the cost is greater than liquid formulations. The cost to treat an acre with granular herbicides could exceed \$120. This may be 8 to 10 times the cost of applying the same active ingredient sold as a liquid formulation.

An advantage of granular herbicides is that when hardwood leaves are dry, the granules drop to the ground and do not affect the foliage. In cases where granules are lodged in the foliage, a sufficient amount of irrigation soon after treatment will reduce the chance of phototoxicity. For this reason, a wide variety of species are listed on granular herbicide labels. Granules of oxyfluorfen and oxadiazon could cause some necrosis if they are allowed to remain on leaves.

**WARNING:** Unfortunately, “water dispersable granules” (WDG) do not fit the WSSA definition even though they are called “granules.” DO not treat WDG formulations as though they were true granular formulations. WDG formulations should be mixed with water and applied as a liquid spray. Do not apply WDG formulations without following the label directions.

## **Product**

1. Devrinol 5-G
2. Devrinol 10-G
3. Ornamental Herbicide II
4. Pendulum 2G
5. PrePair Ornamental Herbicide
6. RegalO-OHerbicide
7. RegalKade G
8. Regal Ronstar AC
9. RegalStarII
10. Ronstar G
11. Rout
12. Treflan 5G

## **Active Ingredients**

napropamide – 5%  
napropamide – 10%  
oxyfluorfen – 2%, pendimethalin 1%  
pendimethalin – 2%  
napropamide – 4%, oxadiazon – 2%  
oxyfluorfen – 2%, oxadiazon – 1%  
prodiamine – 0.5%  
oxadiazon – 2%  
oxadiazon – 1%, prodiamine - 0.2%  
oxadiazon – 2%  
oxyfluorfen – 2%, oryzalin – 1%  
trifluralin – 5%