

# Tech Shares

## Gemini® Granular

High Performance Granular Pre-Emergent Herbicide

Gemini® Granular, like Gemini® 3.75SC, combines the powerful pre-emergent herbicide Isoxaben with Prodiamine into a convenient granule. Gemini® Granular controls 120+ grassy and broadleaf weed species in many use sites: Container & Field Ornamentals, Landscape Ornamentals, and Christmas Tree Farms. Gemini® Granular's label lists more than 450 tolerant ornamental plant species, among the best in the category.

R-50 Optimizer™ Technology;  
Less Herbicide, More Flexibility

Though powered by Isoxaben and Prodiamine, Gemini® Granular is driven by ICL's proprietary R-50 Optimizer™ Technology. R-50 Optimizer™ Technology is a transformational efficiency enhancer that gives Gemini® Granular the power to control weeds with less herbicide per unit area. Gemini® Granular with R-50 Optimizer™ gives you the option to use it up to three times in one year before reaching maximum limits. And because you can put down more applications per growing season, you can extend the length of control.

### Performance

Gemini® Granular works on 120 weeds species. The chart below shows 7 different weed species controlled when applied at the low rate of 100 lbs to the acre.

Gemini® G Weed Control Examples								
	Days after Application	3	7	14	21	28	60	90
Common Name	Latin Name	% Control						
Annual Bluegrass	<i>Poa annua</i>	100%	100%	96%	93%	90%	56%	64%
Crabgrass	<i>Digitaria sanguinalis</i>	100%	100%	98%	99%	98%	99%	73%
Chickweed	<i>Stellaria media</i>	100%	100%	100%	100%	100%	100%	100%
Canada Horseweed	<i>Conyza canadensis</i>	100%	100%	100%	100%	96%	98%	97%
White Clover	<i>Trifolium repens</i>	100%	100%	81%	77%	95%	98%	95%
Hairy Bittercress	<i>Cardamine hirsuta</i>	100%	100%	100%	97%	100%	100%	*
Groundsel	<i>Senecio vulgaris</i>	100%	100%	92%	91%	85%	**	**

\* Data collection ended at sennescence  
\*\* Data collection ended with Groundsel plants began flowering

Gemini® Granular Rate Chart – Highly Flexible Rates with up to 3 applications per year!

Amount to Apply	When to Apply	Comments/Instructions
100-200 lbs to the acre	Anytime weed germination is expected	Use the higher amount for longer control
or		
37-75 oz/1000 ft <sup>2</sup>		Gemini® Granular can be applied more than once per year as long as the total amount of product applied does not exceed 375 lbs/acre (2.44 lbs. active ingredient/acre) per year

Gemini® Granular controls broadleaf and grassy weeds for up to 4 months. Data shown below shows percent weed seed germinated. Gemini® Granule at 200 lbs/acre performed for 4 months.

