

B-NINE® SG

PLANT GROWTH REGULATOR

MAPP 19611

Water soluble granule formulation containing 85% w/w daminozide for use as a growth regulator in protected ornamental plant production

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL PLANT GROWTH REGULATOR

For use in ornamental plant production (protected)

Maximum individual dose: 5.0 kg product per hectare

Maximum total dose: 15.0 kg product / hectare / crop

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS

To avoid risks to human health and the environment, comply with the instructions for use

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the product or when applying by hand-held equipment.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

Environmental protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF REACH OF CHILDREN. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

Directions for use:

see attached booklet

Manufacturing date and Batch No.: see packaging

Approval Holder & Marketing

Company: UPL Europe Ltd,
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Birchwood Park, Warrington,
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This leaflet/booklet is part of the authorised Product Label

B-NINE® SG

SAFETY PRECAUTIONS

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DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

B-NINE SG is a growth regulator which reduces the internode length of a number of ornamental plants, thus producing compact and robust plants. Foliage tends to be greener and the plants more able to withstand drought and

transport stresses. The period of saleability of many plant types can be extended.

B-NINE SG can be used on a wide range of ornamental plants grown under protection. For use on protected ornamental plants not specified on the label, growers are advised to test B-NINE SG in small pilot trials to assess the efficacy and crop safety of the product under their local conditions and cultivars grown, before more wide-scale use.

RESTRICTIONS

Response to treatment with B-NINE SG differs widely depending on variety, stage of growth and physiological condition of the plant. It is not possible to establish one precise dose rate for the individual species because the dose depends not only on the plant species and variety, but also on growth factors such as water, fertiliser, light intensity, stage of plant at first application, and the effect that the user wants to achieve. Under some conditions and on some varieties, B-NINE SG may delay flowering. Effects on final bloom number, size and colour have not been fully established. Always test on a small scale any new variety to observe if symptoms occur, before large scale use.

Do NOT use on the *Chrysanthemum* variety Fandango.

Do NOT mix B-NINE SG with other spray chemicals, unless specifically recommended.

Spray when foliage is dry.

Apply only to turgid, well watered plants. Best results are obtained when the application is made in late afternoon, when the glasshouse has cooled down from the heat of the day.

Plants should not be watered for 24 hours after application of B-NINE SG.

MIXING

Wash out the spray tank thoroughly before and after use.

Make up the correct amount of solution required that day and do not store in metal containers.

Add the required amount of B-NINE SG to clean water and stir or agitate vigorously until dissolved.

Do not leave the B-NINE SG spray in contact with metal for more than 2 hours.

APPLICATION

Use compressed air or power sprayers. Ensure good spray coverage of plant foliage, spraying just to the point of run-off. This will generally be achieved by using a water volume of 1000 l/ha with a FINE spray quality.

RATES OF USE

The maximum individual dose of B-NINE SG that can be applied is 5.0 kg product per hectare. The maximum total dose of B-NINE SG that can be applied to any one crop in a growing season is 15.0 kg product per hectare.

Do **NOT** exceed a maximum individual dose of 5.0 kg product per hectare.

Do **NOT** exceed a maximum total dose of 15.0 kg product per hectare per crop.

POTTED PLANTS

Pot chrysanthemums:

To produce well branched and compact plants:

Apply when the breaks are 12-25mm long. Under vigorous growing conditions tall varieties may require a further application after 10-14 days.

A dose range of 1.2 to 5.0 kg product/ha will produce well branched and compact plants. At the higher rates of application within this dose range, flowering may be delayed. Rates of use as g product per litre water are shown in the table below.

kg product/ha	Water volume			
	800 l/ha	1000 l/ha	1200 l/ha	1500 l/ha
	g product/l			
1.2	1.5	1.2	1.0	0.8
2.0	2.5	2.0	1.67	1.33
3.0	3.75	3.0	2.5	2.0
4.0	5.0	4.0	3.33	2.67
5.0	6.25	5.0	4.17	3.33

Always test on a small scale any new variety to observe if symptoms occur, before large scale use.

Other potted plants:

B-NINE SG has been successfully used on Kalanchoe and Cyclamen.

Apply after re-potting when new growth is 10-12mm long. Re-application after 10-14 days may be necessary.

A dose range of 1.0 to 5.0kg product/ha will produce well branched and compact plants. Rates of use as g product per litre water are shown in the table below.

kg product/ha	Water volume			
	800 l/ha	1000 l/ha	1200 l/ha	1500 l/ha
	g product/l			
1.0	1.25	1.0	0.83	0.67
2.0	2.5	2.0	1.67	1.33
3.0	3.75	3.0	2.5	2.0
4.0	5.0	4.0	3.33	2.67
5.0	6.25	5.0	4.17	3.33

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CUT FLOWERS**Standard chrysanthemums (single bloom):**

To reduce length of "neck" (pedicel):

Apply 2 to 3 days before disbudding and again 7 to 10 days later where necessary, or when new growth is observed. Apply B-NINE SG to the top 150 to 200mm of foliage.

For variety Fred Shoemith, and its sports, one application of 0.75 kg product/ha may be sufficient.

A dose range of 0.5 to 5.0 kg product/ha will reduce the length of "neck" (pedicel). At the higher rates of application within this dose range, flowering may be delayed. Rates of use as g product per litre water are shown in the table below.

kg product/ha	Water volume			
	800 l/ha	1000 l/ha	1200 l/ha	1500 l/ha
	g product/l			
0.5	0.625	0.5	0.417	0.33
1.0	1.25	1.0	0.83	0.67
2.0	2.5	2.0	1.67	1.33
3.0	3.75	3.0	2.5	2.0
4.0	5.0	4.0	3.33	2.67
5.0	6.25	5.0	4.17	3.33

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Spray chrysanthemums (multi-bloom):

To reduce length of "neck" (pedicel):

Apply two weeks after the start of short days and apply to the top 150 to 200mm of foliage.

A dose range of 0.5 to 5.0 kg product/ha will reduce the length of "neck" (pedicel). At the higher rates of application within this dose range, flowering may be delayed. Rates of use as g product per litre water are shown in the table below.

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	800 l/ha	1000 l/ha	1200 l/ha	1500 l/ha
	g product/l			
0.5	0.625	0.5	0.417	0.33
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3.0	3.75	3.0	2.5	2.0
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5.0	6.25	5.0	4.17	3.33

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BEDDING PLANTS

To reduce undue elongation ('legginess'). B-NINE SG has been successfully used on Antirrhinum, Aster, Lobelia, Marigold (African), Marigold (French), Mesembryanthemum, Petunia, Phlox, Salvia, Stock and Tagetes.

There is some evidence of height reduction in some cultivars of winter Viola but the effect can be unpredictable.

General advice:

Apply from two weeks after pricking out, when plants have made new growth. A higher application rate will be required for bedding plants growing under vigorous conditions, and for vigorously growing varieties or species. Spray to give good coverage.

Specific advice:

Marigold (African), Marigold (French) & Tagetes: apply as soon as the terminal flower bud is visible.

A dose range of 0.5 to 5.0 kg product/ha will reduce undue legginess. Rates of use as g product per litre water are shown in the table below.

kg product/ha	Water volume			
	800 l/ha	1000 l/ha	1200 l/ha	1500 l/ha
	g product/l			
0.5	0.625	0.5	0.417	0.33
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SHRUBS

B-NINE SG has been successfully used on Azaleas, Fuchsia, Gardenia and Hydrangeas to produce beneficial results, including shorter compact plants, darker foliage and additional bud set. Growers are advised to test B-NINE SG on a small scale to verify its activity under particular conditions.

Apply when the new growth, following any necessary trimming (pinching out), is 25 to 50 mm long. Repeat application 14-21 days later if necessary.

A dose range of 1.0 to 5.0 kg product/ha will produce beneficial results, including shorter compact plants, darker foliage and additional bud set. Rates of use as g product per litre water are shown in the table below.

kg product/ha	Water volume			
	800 l/ha	1000 l/ha	1200 l/ha	1500 l/ha
	g product/l			
1.0	1.25	1.0	0.83	0.67
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B-NINE® is a registered trademark

EU supplier details (for Northern Ireland only):

UPL Holdings Coöperatief U.A.

Claudius Prinsenlaan 144 A, Blok A, 4818CP Breda, The Netherlands

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