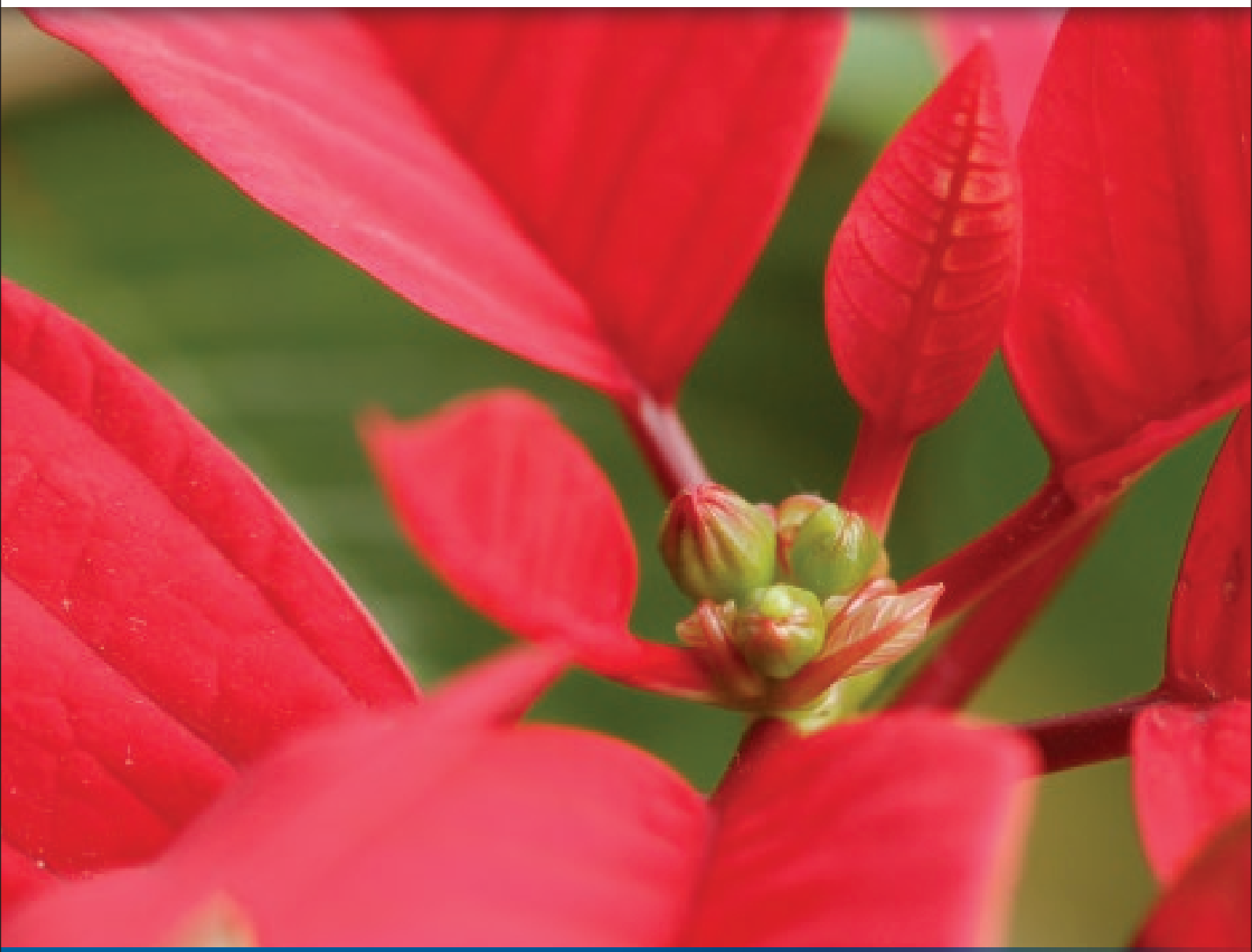
B-NINE®

PLANT GROWTH REGULATOR

Daminozide - water soluble granule

Plant Growth Regulator for protected ornamental plant production



- Easy to use and effective
- High level of safety for plants, people and environment
- Flexibility – it may be used once or repeatedly
- Product Leader for pot plants, Poinsettia and Chrysanthemums

Arysta LifeScience

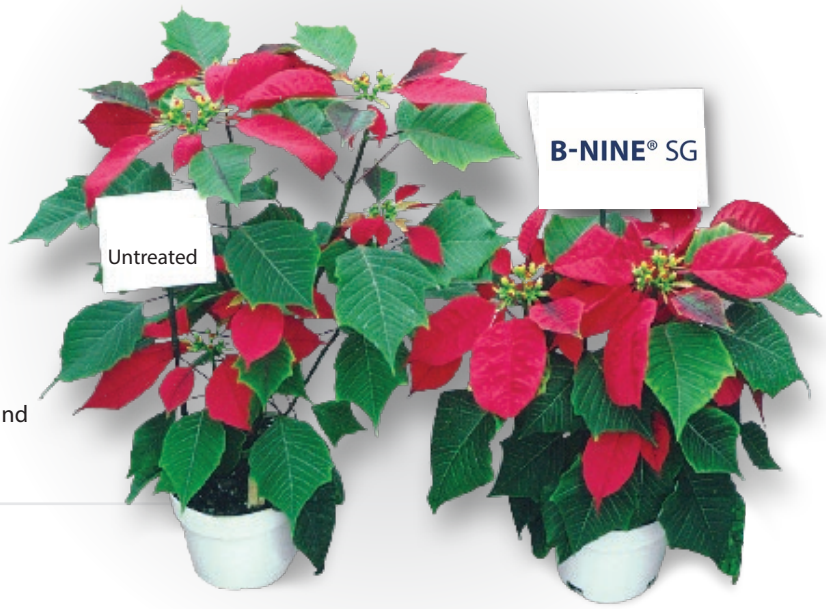
www.arystalifescience.co.uk

B-NINE®

B-Nine is a Plant Growth Regulator
It inhibits the biosynthesis of gibberellins, which reduces the internode length producing more compact and robust plants. Foliage tends to be greener and plants more able to withstand drought and transport stresses. The period of saleability of plants treated with B-Nine can be extended.

TECHNICAL INFORMATION

Active: daminozide
Chemical family: hydrazide
Plant Growth Regulator (PGR)
Mode of Action: inhibitor of gibberellins biosynthesis



HOW IT WORKS

Inhibition of the biosynthesis of gibberellins.
- Gibberellins are hormones in all plants;
- Responsible for cell elongation at growing tips;
- More gibberellins = longer internodes

B-Nine is absorbed within 12 hours after application and translocated in the plant tissues.

REASONS FOR USE

More compact and "full" plants (smaller internodes)
- Darker green foliage
- More lateral shoots and more flowers (less apical dominance)
- Better root growth (more branched)
- Better drought tolerance (resistance)

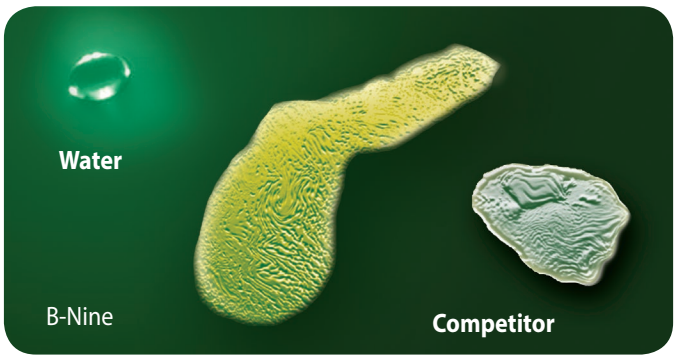
BENEFITS

- More attractive plants
- Plants ship better with less stem breakage
- Plants are more durable in retail outlets.
- Crop can be maintained at optimum market size for longer periods

DIRECTIONS FOR USE

Response to treatment with B-Nine 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.

Because B-Nine is transparent, and does not leave a residue on leaves, it is ideal for use in ornamentals.



Leaf wetting

APPLICATION RATES

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
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

Maximum application rate for hectare per application: 5 kg
Numbers of maximum applications per crop cycle: 3 times
Maximum application rate per hectare per crop cycle: 15 kg

Advantages versus similar products

IMPORTANT INFORMATION

Under some conditions and on some varieties, B-Nine may delay flowering. It is advisable to test on a small scale any new variety in order to observe the results before large scale use. Use when foliage is dry, apply only on turgid, well watered plants.
Best results are obtained when applications are made in late afternoon, when the glass-house has cooled down from the heat of the day.

Plants should not be watered for 2-3 hours after application with B-Nine.
The information on this leaflet are indicative and informative. Read carefully the instructions on the label to obtain more information about the product.

Do not mix with any other chemical unless specifically recommended.

Do not use on Chrysanthamum variety Fandango.

B-NINE®

B-NINE ON POT PLANTS

POT CHRYSANTHEMUMS

- To produce stronger stalks and smaller internodes, more well branched and compact plants, reducing damages during transport
- To increase quality and duration of flowering
- Greener foliage
- Increase in root growth, drought and pollution resistance

Early applications

- Use when shoots of plants are maximum 2.5 – 5 cm long, around 2 weeks after pinching out (topping)
- Repeat the application at 2-3 week intervals
- To avoid flowering delay, do not use B-Nine after budding formation and do not exceed maximum dose rates.

Other pot plants

B-Nine can also be used on Cyclamen and Kalanchoë.

POINSETTIA

- a uniform size
- well structured
- strong and transport resistant
- more bracts
- a good coloration

Early applications

- Use when shoots of pruned plants are maximum 5 – 8 cm long
- Repeat the application at 2-3 week intervals (2-3 applications)
- To avoid an excessive reduction of bracts, do not use in short day period (≈25 Oct.)

B-NINE ON BEDDING PLANTS

B-Nine can be successfully used on Antirrhinum, Aster, Dahlia, Lobelia, Marigold (African & French), Mesembryanthemum, Petunia, Phlox, Salvia, Stock, Tagetes and Matthiola incana to produce more compact plants with stronger shoots and darker foliage.

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

B-NINE ON ORNAMETAL SHRUBS

B-Nine can be successfully used on Azaleas, Fuchsia, Hydrangeas and Gardenia to produce desirable effects of more compact plants, with darker foliage and more shoots.

AZALEAS

- To produce uniform, dense and compact plants, with minimum extension of the stalk.
- To increase bud number for better flowering.
- To reduce the apical dominance on flower buds in glasshouse plants.
- To increase root growth, to produce a stronger, more compact stem, for better transport tolerance and plant preservation.
- Greener foliage and healthier plants, with increased commercial value.

Early applications

- Use when shoots of pruned plants are maximum 5 – 8 cm long
- Repeat the application at 2-3 week intervals

HYDRANGEAS

- To help control the growing crop during spring and summer.
- To reduce internodal length to obtain more compact plants.
- Greener & luxuriant foliage due to increase in chlorophyll production.
- Use when the new growth, following necessary pinching out (topping), is 40 to 80 mm long. Repeat 14 to 21 days later.

GARDENIA

To reduce the height, increase flower number and improve foliage colour, use when plants are approximately 2/3 of their final height. Application of B-Nine produces desirable effects of smaller and more compact plants, darker foliage, and an increase in shoot number.

B-NINE ON CUT FLOWERS

B-Nine can be used on standard and spray chrysanthemums to reduce the length of neck. Use for about 2 weeks after disbudding of growth point (topping) and repeat if necessary.

B-Nine correctly used, will allow production of compact and well formed plants. At higher rates, flowering can be delayed.

ABOUT ARYSTA LIFESCIENCE

Arysta LifeScience is a global agricultural company specialising in the marketing and distribution of innovative crop protection and life science brands.
Arysta LifeScience has a fully integrated biological and chemical portfolio to provide complete solutions to growers including biosolutions; fungicides; herbicides; PGRs, insecticides; and seed treatments.
Arysta LifeScience is owned by Platform Specialty Products (www.platformspecialtyproducts.com), a global innovator of technologically advanced specialty chemical products and provider of technical services.
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Use plant protection products safely.
Always read the label and product information before use.