



COMPLETE
BALANCED
NUTRITION
**IN A SINGLE
GRANULE.**

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Nitrophoska[®]
Special

UNIFORM NUTRIENT DELIVERY TO HELP MAXIMISE CROP PRODUCTION AND QUALITY.

Nitrophoska® Special is a versatile compound NPKS fertiliser. It provides uniform delivery of targeted, balanced nutrition to maximise yield potential and quality in tree, vine and vegetable crops, as well as sugar cane. Nitrophoska Special also promotes vigour in floriculture ornamental plants and turf.

WHY CHOOSE NITROPHOSKA SPECIAL?

BALANCED NUTRITION IN EVERY GRANULE

Each granule contains all the nutrients in Nitrophoska Special, improving the uniformity of nutrient distribution in crops and reducing issues with nutrient segregation during transport or application.

OPTIMAL PLANT ESTABLISHMENT

The nitrate nitrogen and water-soluble form of the key nutrients included in Nitrophoska Special allow quick plant uptake for vigorous plant establishment.

EVENLY-SIZED GRANULES FOR EVEN RESULTS

The granules are uniformly sized for even spreader application, promoting even crop growth and produce quality.

AMMONIUM STABILISER TREATABLE

Nutrient efficiency can be improved and leaching, runoff and denitrification pathways reduced.

RAPID RELEASE WITH MINIMAL MOISTURE

For improved nutrient access the water-soluble nutrients are rapidly released into the soil following night dew or as little as 3mm of rain.

REDUCED N LOSSES THROUGH VOLATILISATION

The favourable pH of the actual fertiliser granule coupled with having nitrogen present in the nitrate and ammonium forms, reduces the potential for volatilisation losses when Nitrophoska Special is surface-applied compared with urea blends.

CHLORIDE-FREE POTASSIUM FOR CROP SAFETY

The potassium in Nitrophoska Special is free from chloride, making it ideal for use on salt-affected soils and in chloride-sensitive crops such as avocados, lychees, longans, mangosteens lettuce, beans, carrots, peas, onions and celery.

EASY APPLICATION AND STORAGE

The high-quality granules are resin-treated for free-flowing, precise application and ease of storage.

ANALYSIS

Nitrogen	12%	<ul style="list-style-type: none"> 5% nitrate nitrogen 7% ammonium nitrogen 14.1% water-soluble potassium sulphate
Phosphorus	5.2%	
Potassium	14.1%	
Sulphur	8%	
Calcium	3.2%	
Magnesium	1.2%	
Boron	0.02%	
Zinc	0.01%*	

*Below Australian Fertiliser Label Standards

GETTING THE BEST OUT OF NITROPHOSKA SPECIAL

NITROPHOSKA SPECIAL IS RECOMMENDED:

- As a planting fertiliser for vegetables where soil phosphorus levels are moderate to high, or pre-plant phosphorus has been applied.
- As a base or side dressing for intensively grown crops.
- To fertilise chloride-sensitive crops.
- In tree crops, where a broadcast NPKS application is required.
- To fertilise crops grown in salt-affected soils or on soils with a moderate supply of phosphorus.

HOW ENTEC REDUCES NITRATE UPTAKE TO IMPROVE SHELF-LIFE AND TASTE OF PRODUCE**

NITRATE CONTENT OF HARVESTED VEGETABLES

Crop	Number of trials	mg/kg of nitrate in harvested vegetables		
		Control	Fertiliser without ENTEC	Fertiliser with ENTEC
Lettuce	18	336	784	672
Cauliflower	9	118	145	83
Leek	8	46	101	106
Cabbage	4	201	258	176
Lambs Lettuce	10	50	913	877
Radish	3	693	1480	1353
Carrot	6	15	52	27
Spinach*	5	49	1438	963

*Mean of spinach harvested in autumn and winter. Source: European trials conducted between 1999 and 2000.

**These trials have not been replicated for Australian conditions. Speak to your local Adviser or Agronomist to determine if this product is suitable for use in your fertiliser program.

ENTEC® NITROPHOSKA SPECIAL

Nitrophoska Special can be treated with ENTEC, the ammonium stabiliser, at select distribution sites. ENTEC helps limit nitrogen loss, allowing your crops to use nitrogen more efficiently, with the potential to:

- Reduce leaching of nitrogen from the root zone by slowing the conversion of ammonium to nitrate in the soil.
- Reduce gaseous nitrogen losses through denitrification by keeping nitrogen in the stable ammonium form. Potential reduction in nitrous oxide emissions up to 60%[^].
- Improve potential for marketable yields and plant quality because the greater concentration of stabilised ammonium can improve produce shelf-life and taste.
- Extend the application interval between N fertilisers without reducing yields, which often eliminates an application round.
- N fertiliser applications reduce the nitrate content in harvested produce as demonstrated in numerous European trials.

[^]ENTEK Nitrophoska (base fertiliser) Broccoli trail 2011, Werribee, Australia.

HOW ENTEC WORKS

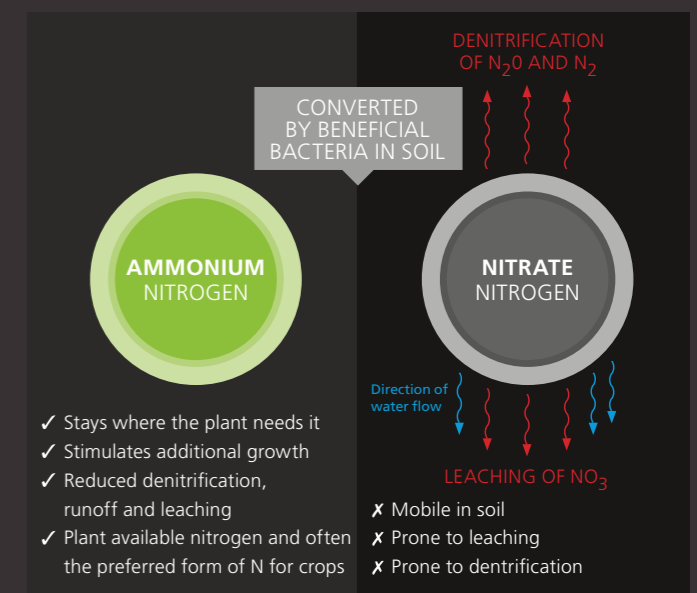
When conventional untreated nitrogen fertiliser is applied, naturally occurring beneficial soil bacteria can quickly convert the more stable ammonium form of nitrogen into its more mobile nitrate form.

Conventionally, any nitrate not taken up by the plant is lost to leaching, runoff and/or denitrification. It's a risk that's particularly acute in any region prone to unpredictable rainfall, like dry spells followed by significant rain.

ENTEK treatment slows down the bacteria that convert ammonium to nitrate, holding nitrogen in the stable ammonium form for longer.

It makes more nitrogen available to the plant when it's needed – while reducing the risk of loss whenever rainfall or irrigation bring on wet conditions.

WHAT HAPPENS TO NITROGEN IN FERTILISER?



Nitrophoska®
Special

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Vegetables					
Crop	Rate of applications			No. of appl.	Timing
	kg/ha	g/m ²	g/m of row		
Tomatoes	500 kg/ha	50 g/m ²	50 (1.5m row)	1	Preplant or planting
Potatoes	500 kg/ha	50 g/m ²	40 (0.75m row)	1	Preplant or planting
Cucurbits (Pumpkins, Watermelons, Cucumbers, Zucchini)	350 kg/ha	35 g/m ²	70 (2m row)	1	Preplant or planting
Beans	350 kg/ha	35 g/m ²	25 (0.75m row)	1	Preplant or planting
Brassicac (Broccoli, Cauliflower, Cabbage)	400-600 kg/ha	45 g/m ²	30 (0.75m row)	1	Preplant or planting
Leafy crops (Spinach, Rocket, Sorrel)	450 kg/ha	45 g/m ²	30 (0.75m row)	1	Preplant or planting
Carrots	300 kg/ha	30 g/m ²	22 (0.75m row)	1	Preplant or planting
Beetroot, Turnips	500 kg/ha	50 g/m ²	35 (0.75m row)	1	Preplant or planting

Fruit Crops			
Crop	Rate of applications	No. of appl.	Timing
Stone fruit (High chill) Bearing trees (1,000 trees/ha)	400–650 g/tree	1	Early spring
Stone fruit (Low chill) Bearing trees (500 trees/ha)	500 g/tree	1	July/August (bud break)
	110 g/tree	1	December (post harvest)
	500 g/tree	1	February (hardening of summer flush)
Apples Bearing trees (1,000 trees/ha)	350 g/tree/application	2	Bud burst and late spring
Grapes	250 – 400 g/vine	1	Late winter before bud burst
Turf/Lawns	250 kg/ha or 25 g/m ²	2	September and January
Palms Large, established and bearing	300 g/tree/application	4	October, December, February, April
Flowers (Annuals)	2 level tablespoons/metre of row	1	Before planting
Flowers (Roses)	4 level tablespoons/m ² of bed	1	At planting
	2 level tablespoons/m ² of bed	1	August
	1 level tablespoon/m ² of bed	1	When buds are forming
Flowers (Camellias, Azaleas)	2 level tablespoons/m ² /application	2	Late August, February
Flowers (Bulbs, Corms)	4 level tablespoons/m ²	1	3 weeks before planting

Sugar Cane			
Sugar Cane	375 – 450 kg/ha	1	At planting



FIND OUT EXACTLY WHAT NUTRITION YOUR CROP NEEDS

Only with regular and routine use of strategic nutrient analysis (including soil, plant tissue and water analysis, if irrigating) can you tell just what you're missing, and how much you need to apply for optimum crop efficiency and yield.

Let Nutrient Advantage[®] lend a hand. For over 50 years, our Nutrient Advantage service has been helping farmers gain a productivity edge through reliable soil and plant tissue testing, and expert, localised nutrient advice.

WANT THE ADVANTAGE?

Visit nutrientadvantage.com.au or call **1800 803 453** and ask about our soil and plant tissue testing services.

Tree and Vine Crops			
Crop	Rate of application	No. of applications	Timing
Citrus	400 g/tree x age in years (up to 3.2kg/tree at 8 years and older)	1	July
Paw Paw	30 g/tree/month	4-5	From planting to flowering
	60 g/tree/month	5-6	From flowering to first harvest
	175 g/tree	2	In the first month following harvest and again six months later for the second and subsequent years
Macadamia	100 g/tree/application	5 in year 1	February, April, June, October, December
	150 g/tree/application	5 in year 2	February, April, June, October, December
	350 g/tree/application	5 in year 3	February, April, June, October, December
	425 g/tree/application	5 in year 4	February, April, June, October, December
	500 g/tree/application	5 in year 5	February, April, June, October, December
	1040 g/tree/application	5 in year 6	March, June, August
	1300 g/tree/application	5 in year 7	March, June, August
Up to a maximum of 6.5 kg/tree/year at 12 years and older			
Avocado Trees 3 years and older For a canopy diameter of 2 metres	140 g/tree/application	2	After fruit drops and 6 weeks later
For a canopy diameter of 4 metres	75 g/tree	1	Early April
	625 g/tree/application	2	After fruit drops and 6 weeks later
For a canopy diameter of 6 metres	285 g/tree	1	Early April
	1250 g/tree/application	2	After fruit drops and 6 weeks later
For a canopy diameter of 8 metres	625 g/tree	1	Early April
	2250 g/tree/application	2	After fruit drops and 6 weeks later
	1070 g/tree	1	Early April
Bananas Plant crop - planting	400 g/plant	1	Preplant incorporated
	200 g/plant	1	In drill at planting (avoid direct contact with planting material)
Plant crop - sidedress	100–250 g/plant/application	8-10	Every 4-6 weeks post planting
Ratoon crop	200 g/plant/application	4	Strategic applications in conjunction with regular fertiliser program

Other fertilisers may also be needed to support healthy crop growth. Nutrient Advantage[®] soil testing will assist in monitoring soil nutrient levels and crop requirements. Note: Planting fertilisers should be banded 5 cm to the side and 5 cm below the seed or transplants, and not placed in direct contact with the planting material.

While the fertiliser rates and programs detailed in the table above are a practical guide to good agronomic practice under most situations, they offer indicative rates only and are not complete fertiliser programs. Local soil, climatic and other conditions should be taken into account. Higher or lower rates may be required or different fertilisers altogether. Talk to your local Incitec Pivot Fertilisers Distributor about soil testing and arranging a specific fertiliser recommendation that best suits your needs. This table covers use recommendations for some agricultural segments and is not necessarily a complete guide.



Nitrophoska[®] *Special*

- ✓ Balanced nutrition in every granule
- ✓ Fast uptake and excellent availability for optimal plant establishment and growth
- ✓ Evenly sized granules for uniform application and even growth
- ✓ Chloride-free potassium for use on salt-affected soils and chloride-sensitive crops

CHOOSE ENTEC NITROPHOSKA SPECIAL FOR:

- Ammonium nutrition and a more efficient use of nitrogen
- Potential enhancement of yields and crop quality
- Reduced nitrate content in produce
- Less frequent fertiliser applications
- A mechanism to manage leaching, runoff and denitrification pathways

**For more information about Nitrophoska Special and ENTEC Nitrophoska,
contact your Incitec Pivot Fertilisers Distributor or go to incitecpivotfertilisers.com.au**



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