



NutriSphere-N[®] NutriSphere[®]-N for urea granular fertiliser

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GRANULAR

For use on
**granular urea
fertilisers**

Keep nitrogen and your yields
where they belong

More usable nitrogen
means better use
of your
fertiliser investments

Nitrogen Fertiliser Enhancer

NutriSphere[®]-N is stabilising granular and prilled urea and urea containing compound fertilisers. It prevents nitrogen loss from volatilisation and leaching. This enables more of the applied nitrogen to be available for plant uptake and reduces the potential environmental impact. NutriSphere-N treated granular urea can be used on all crops and soil types according to standard practice and local regulations.

NutriSphere-N provides season long protection of the nitrogen whilst being water soluble and biodegradable in the soil. Any unused treated urea granules can be stored indefinitely without any loss in efficacy or degradation when kept dry.

For application to nitrogen fertilisers.

Active ingredient: 40% w/w partial calcium salt of maleic-itaconic copolymer

Inert ingredient: 60% water.

Conditions of supply:

Seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on this label when used in accordance with directions under normal conditions of use.

Since weather, crop, soil and other conditions may vary, Verdesian Life Sciences and/or seller make no warranty of any kind, expressed or implied, concerning the use of this product. The user assumes all risks of use of handling, whether or not in accordance with directions or suggestions to the extent consistent with applicable law.

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Application instructions

NutriSphere-N can be used with all urea based fertilisers. NutriSphere-N - Guide to application, blending and storage.

Application – general

- NutriSphere-N (granular) should be used with granular nitrogen fertilisers such as urea.
- NutriSphere-N is effective with fertilisers containing carbamide and ammonium-N.
- NutriSphere-N is most effective with high-N fertilisers predominantly containing carbamide-N - like urea (46% N as carbamide-N).
- NutriSphere-N improves storage and application properties of the urea and also reduces dust formation.
- Fertiliser bulk blends containing NutriSphere-N treated urea also show improved storage and handling properties.

Application rate:

2.1 litres / tonne of fertiliser

How to apply:

- Use standard application equipment. It is recommended to use 316 grade pumps and attachments for application of the NutriSphere-N. Seals should be made of HDPE, Gore-Tex, Teflon or Viton.
- Dye maybe added to the NutriSphere-N before application – follow dye manufacturer instructions.
- Using a calibrated sprayer apply onto urea fertiliser moving on conveyor belt.
- Immediately after application, the NutriSphere-N treated fertiliser should have mixing process to ensure as much as possible equal distribution across granules.
- Mixing Drum, Drum must always be filled with fertiliser first, NutriSphere-N should be applied by spraying into the moving drum.
- Very small batches can be treated by slowly pouring NutriSphere-N into the moving drum.
- Residence time in the drum should be no more than 6 minutes.
- It is not necessary to evenly cover the entire granule surface; however, an approximate equal amount of NutriSphere-N should have impregnated any fertiliser granule.

Drying time:

- Treated fertiliser should be allowed to dry.
- The typical drying time is ±5 minutes, however, the actual drying time will depend on:
 - » the fertiliser used
 - » the degree of moisture in the fertiliser
 - » environmental condition
 - » the temperature and relative humidity of the air
 - » the equipment used and speed of mixing.
- Additives such as dyes can change drying time.

Storage:

- NutriSphere-N has a 2 year shelf life from date of manufacture. Containers should be kept in a cool, dry, clean place and protected from direct sunlight.
- Storage properties of NutriSphere-N treated urea are improved over non-treated.
- After application NutriSphere-N will remain fully efficient over the storage time of the treated urea.

Making bulk blends:

- Before blending with other components always treat the urea first and have it dried and fully cured before it is used in a blend.
- NutriSphere-N treated urea behaves as good as or better than untreated urea.
- Avail treated phosphate fertiliser can be used in a blend containing cured urea treated with NutriSphere-N. As in any bulk blend the type and quality of the blending components may influence the properties (storage, shelf life,application) of the made blend.
- Blending urea with sulphur containing components:
 - » When blending urea with sulphur containing fertiliser like sulphate of ammonia (SA) special attention should be given to using dry components and maintaining a dry environment.
 - » NutriSphere-N treated urea must be fully cured before mixing into a blend containing sulphur.
 - » It is recommended that storage time of sulphur containing blends should be kept to a minimum.

Cleaning:

- After application, cleaning down of equipment with water is recommended as NutriSphere-N is readily soluble in water.
- Safety and Disposal:
 - » Read instruction on product label before use.
 - » Wear protective clothing to avoid contact with Skin or eyes or breathing in mist from sprayer.
 - » Observe local laws regarding disposal of containers.

User safety NutriSphere-N

WARNING



- H317** May cause an allergic skin reaction.
- P261** Avoid breathing mists/vapours/aerosols.
- P280** Wear protective gloves/protective clothing.
- P302 P352** IF ON SKIN: Wash with plenty of water and soap.
- P333 P313** If skin irritation or rash occurs get medical advice/attention.
- P363** Wash contaminated clothing before reuse.
- P501** Dispose of the contents/container in a collection centre for dangerous goods and hazardous waste in accordance to local, regional, national and/or international regulations.

Emergency telephone:

+44(0)1235 239 670

Contents: 250 US gal (946.3 L)
Density: 1.23 kg/l at 20° C
Net Wt.: 1163 kg
Inv. ID: 20002637000



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