



VERDESIAN

AVAIL[®]

APPLICATION GUIDE
FOR GRANULAR PHOSPHATE FERTILISERS

VERDESIAN LIFE SCIENCES EUROPE LTD.





GUIDE TO APPLICATION, BLENDING AND STORAGE

Verdesian products for granular phosphate fertilisers are for use only by professional suppliers, blenders, agricultural and horticultural contractors.



Application - General

- Avail (granular) is used with granular phosphorus fertilisers such as DAP, TSP, NP, NPK
- Avail treated granular phosphorus fertiliser remains effective over a cropping season and beyond
- Avail improves storage and application properties of the phosphorus fertiliser and reduces dust formation
- Fertiliser bulk blends containing Avail treated phosphorus fertiliser show improved storage and handling properties



Making bulk blends:

Before blending with other components

- Always treat the P-fertiliser first and have it dried before it is used in a blend. Avail treated P-fertiliser behaves as good as or better than untreated.
- 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.

Do not apply Avail for granular phosphate into liquid P fertiliser or onto seeds.



APPLICATION RATE FOR AVAIL[®]

2.1 LITRES / TONNE OF FERTILISER

How to apply

- It is recommended to use 316 grade pumps and attachments for application of the Avail. Seals should be made of HDPE[®], Gore-Tex[®], Teflon[™] or Viton[®].
- Dye maybe added to Avail before application – Follow dye manufacturer instructions
- Using a calibrated sprayer apply onto fertiliser moving on conveyor belt
- Immediately after application, the Avail treated fertiliser should have a mixing process to ensure as much as possible equal distribution across granules

Mixing drum

- Drum must always be filled with fertiliser first
- Avail should be applied by spraying into the moving drum
- Very small batches can be treated by slowly pouring Avail into the moving drum
- Residence time in the drum should be no more than 6 minutes

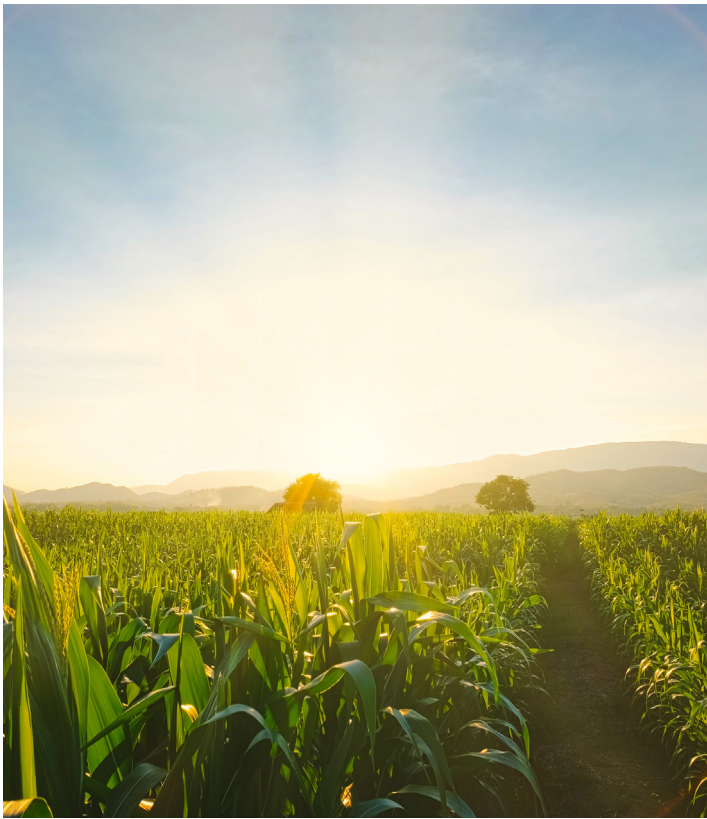
It is not necessary to evenly cover the entire granule surface; however, an approximate equal amount of granular product should have impregnated any fertiliser granules.

Drying time

- Treated fertiliser should be allowed to dry
- Additives such as dyes can change drying time
- 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 conditions, the temperature and relative humidity of the air
- The equipment used and speed of mixing.

Storage

- Avail product has a shelf life of 2 years. Containers should be kept in a cool, dry, clean place and protected from direct sunlight.
- Storage properties of Avail treated P-fertiliser are improved over non-treated.
- After application Avail will remain fully efficient over the storage time of the treated urea and phosphate fertiliser.



Cleaning

- After application, cleaning down of equipment with water is recommended as Avail are readily soluble in water

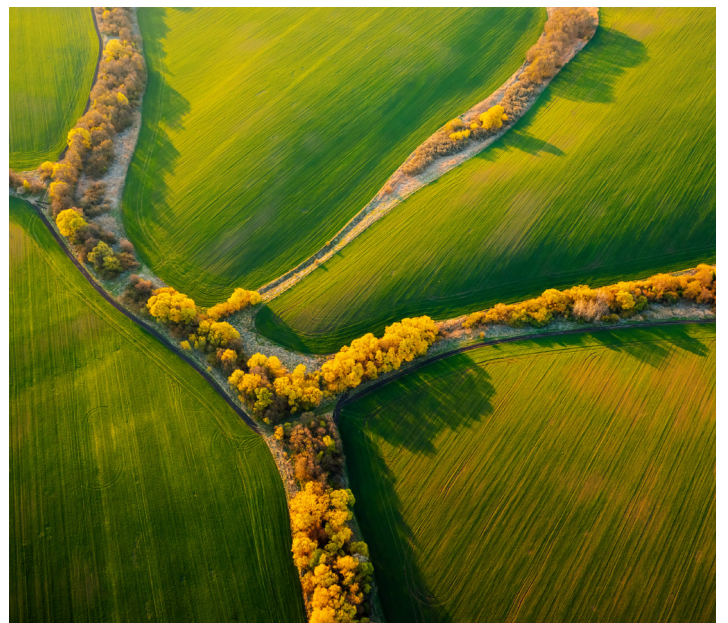
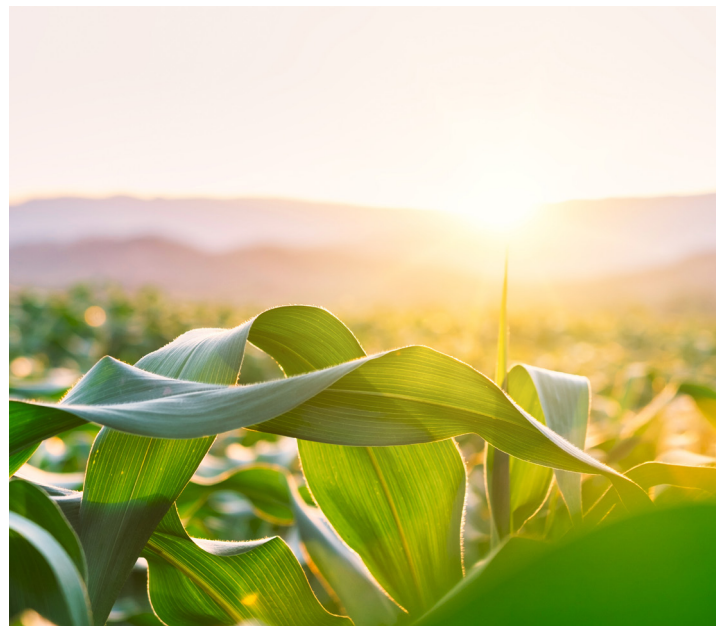
Safety and disposal

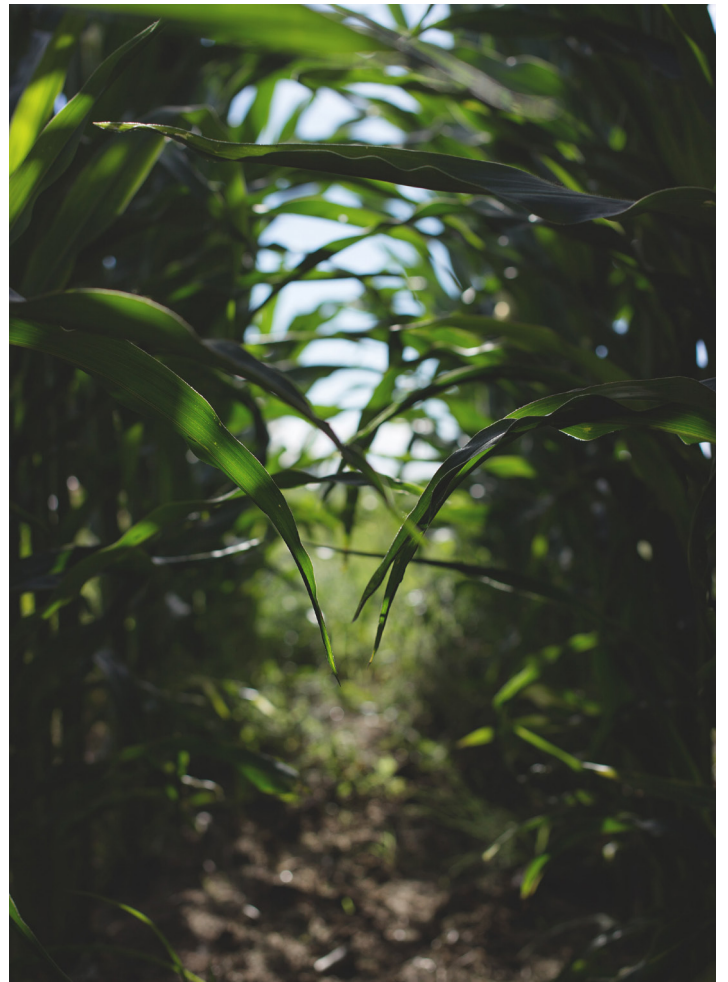
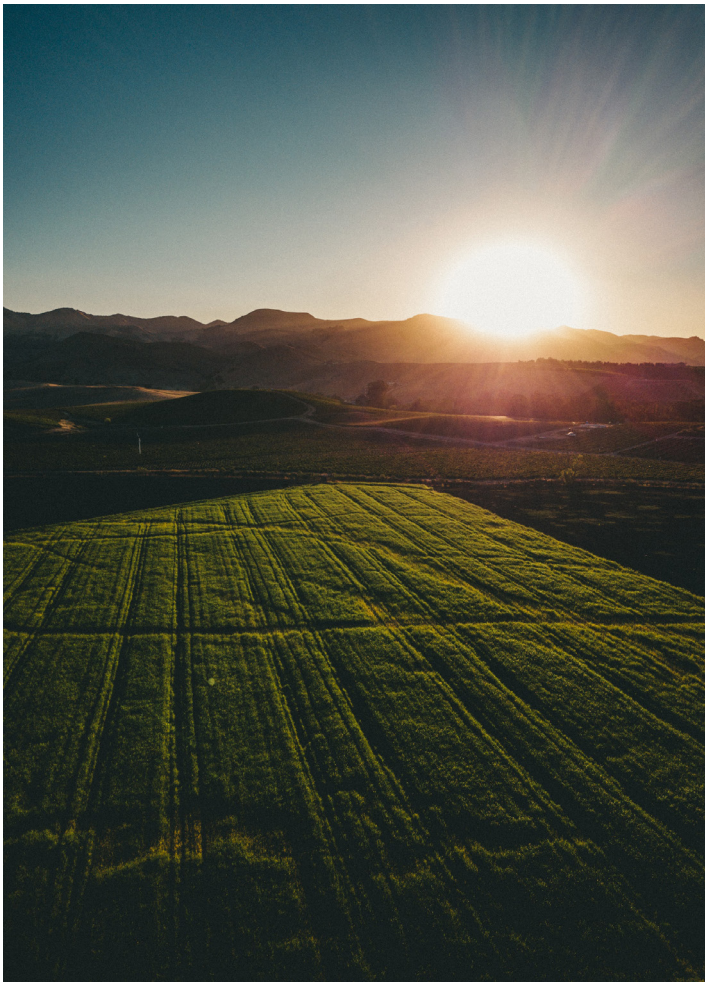
- Read instruction on product label before use.
- Wear protective clothing and equipment to avoid contact with skin or eyes or breathing in mist from sprayer.
- Observe local laws regarding disposal of containers or waste product.
- Do not apply Avail for granular phosphate into liquid P fertiliser

There is no restriction to the crops the treated fertiliser can be applied to but always observe any local regulation.

Hazard statements

H317 May cause an allergic skin reaction.





PRECAUTIONARY STATEMENTS-GRANULAR

Avail®

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.



POLYMER INTERMEDIATE BULK CONTAINER (IBC)

Verdesian Polymers are packed in a pallet mounted intermediate bulk container (IBC).

The IBC is capable of stacking and can be moved by a pallet truck or forklift. When filled to their maximum gross weight the IBC can be stacked to a maximum of 2 high.

Verdesian do not recommend stacking filled IBC's when transporting.



Specification

Contents	946L
UN Code	UN 31HA1/Y
Dimensions	W 1000mm D 1200mm H 1162mm
Cap	150mm, 2 Way Vented
Cap Gasket	Viton
Bottle	HDPE
Cage	Galvanised Tubular Steel
Pallet	Galvanised Tubular Steel / 4-way entry
Tare Weight	60kg
Outlet Valve	Cylinder With Dust Cover
Valve Connection	Quick Disconnect QD



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