

DIDIN®

Fertiliser Additives



Use

With any nitrogen fertiliser, including organic manures, to allow the full season's nitrogen requirement to be applied at one time, while reducing leaching losses.

Crops

Most agricultural crops.

Pack Size

20, 1000 litres, or pre mixed with fertiliser.

Function of DIDIN®

The management of nitrogen is critical to achieve optimum crop yield and gross margin. DIDIN is formulated with nitrification and urease inhibitors which control the release of nitrate nitrogen, increasing yields, reducing application costs and simplifying nitrogen management of the crop. By controlling the release of nitrate into the soil solution, DIDIN can significantly reduce losses of the potent greenhouse gas nitrous oxide into the atmosphere.

Cereals: The unique formulation of DIDIN allows the grower to apply all of the nitrogen in just one dose, saving on additional application costs.

Potatoes: The controlled release of nitrogen following use of DIDIN reduces nitrate leaching losses ensuring that the potato crop can utilise more of the nitrogen applied.

Organic Manures: Most of the available nitrogen applied with slurries in the autumn and winter is lost through leaching and volatilization to the atmosphere and water courses. DIDIN reduces these losses, ensuring that valuable nitrogen is available in the spring.

The bacteriostatic action of one of the nitrification inhibitors in DIDIN, dicyandiamide, works selectively on *Nitrosomonas europaea* controlling the oxidation of ammonium to nitrate. By keeping the nitrogen in the ammonium form which is less prone to leaching, nitrogen losses can be kept to a bare minimum. Dicyandiamide is broken down as soil temperature increases. DIDIN therefore releases more nitrogen as the crop requires it. When applied with slurry in the winter months, DIDIN can stabilise the nitrogen until the crop can use it in the spring.

Composition

Dicyandiamide plus urease inhibitors.

◆ Directions for Use

Liquid Fertiliser: Add half of the fertiliser to the spray tank, add the required amount of DIDIN whilst agitating then add the remaining fertiliser. Maintain agitation whilst spraying.

Granular Fertiliser: Apply before application of granular fertiliser using spray nozzles. Add half of the water to the spray tank, add the required amount of DIDIN whilst agitating, and then add the remaining water. Total spray volume should be a minimum of 200 L/ha. Maintain agitation whilst spraying.

Organic Manures: It is important to ensure that the DIDIN and slurry are well mixed. If using an umbilical cord system, use a proportional injection system. If using a slurry tanker, add DIDIN during filling. Alternatively DIDIN can be sprayed on to the ground before spreading the slurry, digestate or farm yard manure.

Nitrogen	Timing	Soil Type	Rate
Liquid Nitrogen Fertiliser	Spring	Light Medium Heavy/Peat	12.5 10 8
Granular/Liquid Urea	Spring	Light Medium Heavy/Peat	12.5 10 8
Granular Ammonium Nitrate	Spring	Light Medium Heavy/Peat	12.5 10 8
Potato Fertiliser Injected Broadcast	Spring Spring	Light Light	6 12.5
Organic Manures	Autumn Winter		20-25 15-20
AD Digestate	Spring		10-15

◆ Notes

DIDIN is not normally mixed with pesticides. DIDIN is however physically compatible with the full range of OMEX clear solution fertilisers. To ensure complete mixing with OMEX suspension fertilisers DIDIN should be mixed during production by OMEX.