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

10, 600, 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 europeae 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. Total spray volume should be a minimum of 200 L/ha.

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. Didin can also be sprayed on to the ground before spreading the digestate or organic manure.

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

Split Programmes on Winter Cereals: If a 3-split programme is being replaced by a 2-split programme with Didin (where the 2nd and 3rd splits are applied together), the inclusion rates for Didin in the 2nd application are:

Nitrogen Source	Timing	Soil Type	Rate L/ha
Liquid Nitrogen Fertiliser (UAN) Granular Amonium Nitrate	March/ April	Light Medium Heavy/Peat	8.0 6.0 5.0

Notes

Didinis not normally mixed with pesticides. Didin is however physically compatible with the full range of OMEX Multiflo fertilisers. Applications of Nitroflo with Didin in April still requires the addition of NitroShield urease inhibitor to meet the requirements of the Red Tractor Farm Assurance standard in England.

For further information on compatibility and tank mixing, and for physical compatibility with pesticides refer to the website www.omex.co.uk.