



USE DIRECTIONS

October 2021

Granulock[®] Big Z

%N	%P	%K	%S
16.1	4.3	0	16.1

plus 10% Zinc (Zn)



ANALYSIS

16.1% Nitrogen (N) – as Ammonium
3.6 % Phosphorus (P) – Water Soluble
0.7% Phosphorus (P) – Citrate Soluble
4.3% Phosphorus (P) – Total
16.1% Sulfur (S) – as Sulfate
10.0% Zinc (Zn) as Oxide

HEAVY METAL IMPURITIES

Cadmium (Cd) 10 mg/kg (max)
200 mg/kg P (max)
Lead (Pb) 100 mg/kg (max)
Mercury (Hg) 2 mg/kg (max)

Use of this product may result in Cadmium and/or Lead and/or Mercury residues in excess of the Maximum Level specified by the Australia New Zealand Food Standards Code in plant and animal products and may also result in accumulation of these residues in soils.

REGULATORY INFORMATION

This product is classified as an Environmentally Harmful Substance, UN Number 3077, Transport Hazard (DG) Class 9 (Miscellaneous) under the criteria of the IMDG if transported by Sea.

This does not apply to transport by Land (Road and Rail).

GRANULOCK BIG Z

Granulock Big Z is a granulated zinc fertiliser containing 10% zinc (Zn). It is comprised of ammonium sulfate, ammonium phosphate and zinc oxide. The ammonium sulphate and phosphate are used as a base or carrier to dilute the zinc, making application of zinc at low rates easier than where more concentrated zinc fertilisers such as Zinc Sulfate Monohydrate (33% Zn) are used. This also provides more point sources of zinc in the soil for access by plant roots

Granulock Big Z is not offered for sale as a product. It is used exclusively as a blend ingredient. It is one of three products used by Incitec Pivot Fertilisers as a source of zinc (Zn) for dry application to the soil. The others are:

- Zinc Sulfate Monohydrate – 33% Zn
- Granulock Z - an ammonium phosphate planting fertiliser with 1% Zn.

Zinc Sulfate Monohydrate is used where zinc is applied at high rates (that are intended to last for several years) and in plants with a large stature, e.g. tree crops and sugarcane. It may also be used in planting fertilisers in crops planted at wide row spacings.

Granulock Z is a zinc enriched MAP fertiliser that contains 1% Zn. It is used at planting in crops planted at narrow row spacings, e.g. winter cereals and forage crops, and in cotton, where zinc is applied annually at rates around 1 kg/ha Zn.

Granulock Big Z is primarily used for two reasons:

- To bolster the Zn content of Granulock Z where higher rates of zinc are required.
- In place of Zinc Sulfate Monohydrate where low rates of zinc are to be applied and Zinc Sulfate Monohydrate provides too few point sources of zinc in the soil, e.g. pasture on sandy soils.

APPLICATION RATES

Pasture

In pastures, zinc is commonly top-dressed with superphosphate or Super-Potash Blends. A typical rate at which zinc (Zn) is applied on light textured sandy soils is 2 kg/ha Zn, with higher rates (4 kg/ha Zn) being used on clays.

To apply these rates of zinc, Granulock Big Z needs to be applied at 20 kg/ha on light textured sandy soils and at 40 kg/ha on heavier textured clay soils. Repeat applications are required at intervals of about 5 years, though this does vary.

Pasture – Fluorine and Grazing Withholding Periods

Granular phosphorus fertilisers, such as Granulock Big Z, and others such as Incitec Pivot SuPerfect (single superphosphate) and MAP, contain fluorine (F) as an impurity at concentrations that make them unsuitable for use as mineral supplements for livestock. If they were to be used for this purpose, fluorosis would be induced.

The amount of fertiliser (and fluorine) ingested directly from pasture after topdressing will be considerably less than that which would be consumed if these products were inadvertently used as phosphorus supplements, and grazing animals are only exposed temporarily to the fluorine.

Nevertheless, it is recommended that pasture not be grazed for three weeks or until rain or irrigation is received after topdressing with phosphorus fertilisers. Stock can be readmitted within three weeks if rain (or irrigation) has been received to wash fertiliser residues from the

leaves. There is no need to wait until regrowth occurs, as is recommended with nitrogen fertilisers.

Field Crops (Annual Application)

Zinc is often applied at planting in annual crops. A typical rate is 1 to 2 kg/ha zinc (Zn) for each crop.

In crops planted at narrow row spacings, e.g. winter cereals such as wheat and barley, it is recommended that Granulock Z be used, and extra zinc added as Granulock Big Z if necessary.

ENVIRONMENT

Marine Pollutant.

Zinc is very toxic to aquatic life with long lasting effects.

Avoid loss to waterways.

NOTE. Blends that contain more than 8% Granulock Big Z are also classified as Marine Pollutants [Environmentally Harmful Substance, UN Number 3077, Transport Hazard (DG) Class 9 (Miscellaneous) under the criteria of the IMDG if transported by Sea].

CARE OF EQUIPMENT

This product can be corrosive to metals.

Clean equipment after use, and follow the manufacturer`s maintenance advice.

WARNING

Before using fertiliser seek appropriate agronomic advice. Fertiliser may burn and/or damage crops or pasture. Because climatic and soil conditions, application methods, irrigation and agricultural practices are beyond the control of Incitec Pivot Limited and cannot be foreseen, Incitec Pivot Limited accepts no responsibility whatsoever for any commercial damage, loss or other result following the use of this product whether used in accordance with directions or not, subject to any overriding statutory provision and provided that such liability under those provisions shall be limited to the replacement of the goods as supplied or the rendering again of the services that are provided. The buyer accepts and uses this product subject to these conditions.

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