



Agriculture



Description

Commercial name: DIA-FIX
Active ingredient: Diatomaceous earth / Diatomite
Formula: $(Si_2) + (CaFe^{2+}Mg, Mn)(CO_3)_2$

The Diatomite is a biogenic mineral; thus originated from fossilized - either fresh or salt water - algae, used in agriculture to limit the population of certain insects, inhibiting some of their basic functions due to its high silicon content. Additionally, the Diatomaceous Earth retains up to 150% moisture thanks to its porosity, making into an excellent contact fungicide and controlling bacteria proliferation.



Benefits

- It is completely natural.
- It is an important assimilable silicon source.
- Does not pose a health hazard, since it is not toxic.
- Does not alter the pollinating insects life cycle.
- Does not leave any residues, being suitable for use even during harvest.
- Can be combined with any chemical or organic insecticides and fungicides, boosting their efficiency.
- Controls and prevents from fungus and pathogens proliferation when applied directly into soils.
- It's efficient in all climates throughout the whole year.
- Can be used in all type of crops and soils.

Composition

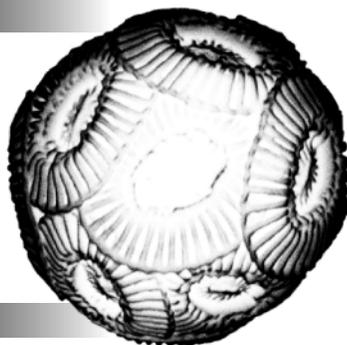
ELEMENT	%
Nitrogen (N)	4.31
Sodium (Na ₂ O)	0.37
Magnesium (MgO)	0.62
Aluminium (Al ₂ O ₃)	4.16
Silicon (SiO ₂)	85.00
Phosphorus (P ₂ O ₅)	0.08
Potassium (K ₂ O)	0.56
Sulfur (SO ₃)	0.05
Calcium (CaO)	1.54
Iron (FeO)	0.99



*This analysis considers the Loss On Ignition (LOI), determined by igniting the sample at 950°C for 1 hour, estimated in 9,99%.

Physical properties

Color: White to light gray powder.
 Origin: Fresh water source.
 Moisture: 12% maximum.
 Apparent density: 0.49 gr/cm³.
 Solubility: INSOLUBLE (>0,01%).
 Hardness: 4,5 Moh's.
 Superficial area: 18m²/gr.
 Hygroscopicity: 127%.



Presentation

Available mesh:
 DIA-FIX: 325 - unique mesh (>50 microns - talc)

Package: polyethylene 20 kg valve bag.

Recommendations

In order to achieve a fair efficiency as contact fungicide or insecticide, apply 15 gr per liter water straining through an anti-aphid mesh to avoid blockings, then actively blend until obtaining a homogeneous mixture and spray immediately while stirring to prevent from settling. Try to cover up the plant as best as possible.

PREVENTIVE DOSAGE:

Vegetables	Apply every 5 days
Citrus	Every 20 days - 2 applications
Maize	Every 15 days - 2 applications
Green houses	Every 15 days - 2 applications
Sugar cane	12 kg into soil + 1% sprayed

For a treatment dosage reduce by half the application periods. An annual application into soils is highly advised, mixing from 50-100 kg per ton with a starter fertilizer, or dispatching directly through the irrigation system, depending on the severity of the problem.

Precautions

This product is NOT food grade; it is not suggested to ingest. Since it can cause skin dryness and powder lungs, it is recommended to employ special safety equipment for handling: overall and gloves, respirator and goggles. It is NOT corrosive nor toxic, although it is volatile. In case of eye or skin contact, wash with abundant water. Keep away from the sun light and moisture, preferably on pallets. Dispose the package in an appropriate place, ensuring to not pollute the closest water bodies.