



PACKAGING:



1 Kg



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## GUARANTEED ANALYSIS

|                                         |               |
|-----------------------------------------|---------------|
| Calcium Carbonate(CaCO <sub>3</sub> )   | : 75 % (w/w)  |
| Magnesium Carbonate(MgCO <sub>3</sub> ) | : 10 % (w/w)  |
| Ferrous(Fe)                             | : 0,5 % (w/w) |
| Silicon dioxide (SiO <sub>2</sub> )     | : 10 % (w/w)  |

# EUROVIT STANDARD

## BENEFITS

- Increases the yield and improves quality and storage properties of crop especially when plants are suffering under stress situations.
- Accelerates the quality of growth and intensifies the harvest colour and shelf life.
- Reduces water requirements due to higher drought tolerance.
- Enhances plant resistance against drought, frost, insects and fungi.
- Enhances the supply of essential trace elements to plants.
- Metabolization of Mg informing Chlorophyll increases the degree of photosynthesis,
- Recommended by European Community for organic farming according to EC Regulation of 834/2007 & 889/2008
- EUROvit STANDARD® particles are smaller than 10 µm and can be absorbed directly through the stomata of the plant's foliage.

### EUROvit STANDARD® – INSTRUCTIONS FOR USE

There are various times when EUROvit STANDARD® can basically be applied:

- at the beginning of foliation / the time of bedding out
- at the time of flowering and
- during the ripening of the fruit

EUROvit STANDARD® Natural CO2 Foliar Fertiliser may be used once or several times, at most every 3 - 4 weeks, separately or in combination with a plant protection agent. Minimum dosage: 1 Kg. / Ha as a 0.3 % - 0.5 % aqueous suspension (300 - 500 Gr. of EUROvit STANDARD® per 100 Lt. of water) with a pH of between 6 and 10. It can be applied using an agricultural pesticide sprayer with an agitator or any commercially available garden spray. A wetting agent will increase the effectiveness and reduce spray residue markings.

#### EUROvit STANDARD® APPLICATION GENERAL

EUROvit STANDARD® Foliar Fertiliser can be used for any application.

#### RECOMMENDED DOSAGE

EUROvit STANDARD® concentration of between 0.3 % and 0.5 %

| EUROvit in Kg.<br>CONCENTRATION | SPRAYING VOLUME |         |         |         |         |         |         |         |          |          |
|---------------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
|                                 | 50 Lt.          | 100 Lt. | 150 Lt. | 200 Lt. | 250 Lt. | 300 Lt. | 500 Lt. | 750 Lt. | 1000 Lt. | 2000 Lt. |
| 0.20 %                          | 0.10            | 0.2     | 0.30    | 0.4     | 0.50    | 0.6     | 1.0     | 1.50    | 2.0      | 4.0      |
| 0.30 %                          | 0.15            | 0.3     | 0.45    | 0.6     | 0.75    | 0.9     | 1.5     | 2.25    | 3.0      | 6.0      |
| 0.40 %                          | 0.20            | 0.4     | 0.60    | 0.8     | 1.00    | 1.2     | 2.0     | 3.00    | 4.0      | 8.0      |
| 0.50 %                          | 0.25            | 0.5     | 0.75    | 1.0     | 1.25    | 1.5     | 2.5     | 3.75    | 5.0      | 10.0     |

## Bio Foliar Fertiliser Natural Co<sub>2</sub>

| USAGE AREA                                                                                                              | APPLICATION | QUANTITY Kg. /<br>Ha | APPLICATION IN TOTAL Kg. /<br>Ha | BBCH GROWTH STAGE FOR EACH EUROvit<br>STANDARD® IMPLEMENTATION OF CODES |                                    |          |
|-------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|----------------------------------|-------------------------------------------------------------------------|------------------------------------|----------|
|                                                                                                                         |             |                      |                                  | 1                                                                       | 2                                  | 3        |
| WHEAT, BARLEY, OAT, RYE,<br>PADDY                                                                                       | 2           | 1.5                  | 3.0                              | 22-23                                                                   | 39                                 | -        |
| MAIZE                                                                                                                   | 2           | 1.5                  | 3.0                              | 14 (-16)                                                                | 19                                 | -        |
| CANOLA CROPS                                                                                                            | 2           | 1.5                  | 3.0                              | 14-16                                                                   | 22-23                              | -        |
| CEREALS                                                                                                                 | 2           | 1.5                  | 3.0                              | 15-16                                                                   | 30                                 | -        |
| SUNFLOWER                                                                                                               | 2           | 1.5                  | 3.0                              | 14-16                                                                   | 31-33                              | -        |
| BETROOT                                                                                                                 | 2           | 1.5                  | 3.0                              | 4-6                                                                     | In August,<br>with<br>Fungicide    | -        |
| POTATO                                                                                                                  | 2           | 1.5                  | 3.0                              | 107                                                                     | 309                                | -        |
| POME FRUITS                                                                                                             | 3           | 1.5                  | 4.5                              | 15                                                                      | 32                                 | 71       |
| STONE FRUITS                                                                                                            | 3           | 1.5                  | 4.5                              | (15-) 19                                                                | 32                                 | 71 (-73) |
| CURRENT                                                                                                                 | 3           | 1.5                  | 4.5                              | 15                                                                      | 32                                 | 71       |
| STRAWBERRY                                                                                                              | 3           | 1.5                  | 4.5                              | 65                                                                      | 72                                 | 77       |
| CITRUS FRUITS                                                                                                           | 3           | 1.5                  | 4.5                              | (15-) 19                                                                | 32                                 | 71       |
| OLIVE                                                                                                                   | 3           | 1.5                  | 4.5                              | 15                                                                      | 31                                 | 65       |
| COFFEE                                                                                                                  | 3           | 1.5                  | 4.5                              | 22                                                                      | 32                                 | 65       |
| BANANA                                                                                                                  | > 3         | 1.2 – 2.5            | 4.5                              | 19                                                                      | Application2<br>0-30 days<br>apart | -        |
| VINE                                                                                                                    | 3           | 1.5                  | 4.5                              | 61                                                                      | 71                                 | 77       |
| SOYA BEAN, COTTON, PEANUT                                                                                               | 2           | 1.5                  | 3.0                              | 19                                                                      | 29                                 | -        |
| HOPS                                                                                                                    | 3           | 2.2, 3               | 7                                | 33                                                                      | 61                                 | > 69     |
| ALLIACEAE (onion, leek, garlic,<br>shallots)                                                                            | 2           | 1.5                  | 3.0                              | 15                                                                      | 41                                 | -        |
| ROOT AND TUBER<br>VEGETABLES (carrots,cabbage,<br>chicory, radish, Yellow turnips.)                                     | 2           | 1.5                  | 3.0                              | 15                                                                      | 42                                 | -        |
| LEAF VEGETABLES (Those who<br>produce flower head)(Cabbage,<br>Chinese Cabbage, lettuce,<br>chicory)                    | 2           | 1.5                  | 3.0                              | 15                                                                      | 41-42                              | -        |
| LEAF VEGETABLES (Those<br>which bear leaves<br>only)(Spinach, Cabbage<br>etc./spinach, loose-<br>head lettuce, cabbage) | 2           | 1.5                  | 3.0                              | 15                                                                      | 33                                 | -        |

## FEATURES

### EUROvit STANDARD® SCIENCE

EUROvit STANDARD® is an excellent foliar fertiliser, consists of (CA, Mg)CO3 supplemented by numerous important micro-nutrients. It is produced by milling natural limestone in special mills down to a particle diameter < 10 µ. Spraying the aqueous solution (0.5 %) of this very fine, tribodynamic activated powder, on the foliage, the EUROvit STANDARD® particles penetrate partly directly through the stomata of the leaves into the intercellular compartment. The rest remains as a film on the leaves surface. The Mechanism of EUROvit STANDARD® action as a fertiliser is still not totally clear. Very probably it is due to supplying the plants with CO2 in much higher concentrations than that in the atmosphere and so enabling the photosynthesis to take place with a much higher degree, leading to a stronger natural growth and increasing yield. Furthermore, the supplements of the different trace elements increasing the enzymatic activity should also play a role in this process.

The release of CO2 in the intercellular compartment is probably due to the docking of the EUROvit STANDARD® particles having a negatively charged surface (as a result of the tribodynamic activation) on the cell membrane, forming a negative electrostatic potential which attracts the protons formed inside the cell due to the water splitting in the first light reaction of the photosynthesis. The protons pass the membrane, dock on the negative charged CO3 – groups of the EUROvit STANDARD® forming intermediary H2CO3 which decomposes to CO2 and H2O.

**MECHANISM 1:** EUROvit STANDARD® consists of Calcium-, Magnesium-Carbonate (CA, Mg)CO3, supplemented by numerous important micro-nutrients. It is produced by milling natural limestone in special mills down to particle diameter < 10 µ. Spraying the aqueous suspension (0.5%) of this very fine, tribodynamic activated) powder on the foliage, the EUROvit STANDARD® particles penetrate in part directly through the stomata of the leaves into the intercellular compartments. The rest remains on the leaves as a film. However, EUROvit STANDARD® acts as an excellent fertiliser. The mechanism of this action is still not totally clear. Very probably it is due to supplying the plants with Carbon dioxide (CO2) in much higher concentrations than that in the atmosphere and so enabling the photosynthesis to take place with higher degrees, leading to a stronger natural growth and increasing yield. Furthermore, the supplements of micro-nutrients increasing the enzymatic activity should also play a role in this process.

**MECHANISM 2:** It is a very important mechanism. At night the leaves are covered with dew water. At the same time the plants burn carbon hydrates in darkness to cover their energy need and produce CO2 + H2O. This Carbon dioxide (in addition to that in the atmosphere) + H2O (from the dew additionally produced) converts the carbonate in EUROvit STANDARD® into Hydrogen carbonate according to: (CA, Mg)CO3 + H2O + CO2 (CA, Mg)(HCO3)2.

During the day the temperature rises gradually, and the equilibrium reaction is shifted to the left-hand side (due to evaporation of water) developing CO2 from the Hydrogen carbonate. In that way EUROvit STANDARD® is acting as quasi catalytic depot supplying permanent CO2 at high concentrations right at the surface of the leaves.