

DeSaltus 2.0

Water conditioner containing maleic and polymaleic acid for use as a soil and growing media. growing media.

Use

DeSaltus 2.0 can be used in all types of irrigation systems to reduce the level of sodium in the growing media.

Crops

All horticultural crops.

Pack Size

10 litres.

Function of DeSaltus 2.0

DeSaltus 2.0 removes primarily sodium from the root zone along with other unwanted nutrients. This reduces the chances of sodium antagonism with essential nutrients, optimizes feed recipes and enhances the uptake of nutrition to the plant.

Many factors influence the effects of salts on plants including weather, drainage, soil/substrate texture, water quality, variety grown etc. Optimum results have been achieved with a programme approach of multiple applications of DeSaltus 2.0 throughout the growing season.

DeSaltus 2.0 can be used in all types of irrigation systems by either metering directly into irrigation water or applying in combination with soluble/liquid fertilisers.

The benefit of incorporating DeSaltus 2.0 into a substrate management plan is that no separate flushing cycles are required. DeSaltus 2.0 is simply added into the stock tank and crops can be fed as normal. This prevents the problem of having excessively wet substrate which can lead to anaerobic conditions around the root zone, poor iron uptake, high humidity around the canopy and a reduction in fruit quality.

The AHDB (Agriculture and Horticulture Development Board) determined that substrate grown strawberries should not have greater than 51 mg/L of sodium or 77 mg/L of chloride within the substrate. To maintain effective nutrient movement in substrate systems, a management plan should be ideally initiated before these threshold levels are breached. The application rate of DeSaltus 2.0 will be determined by either how close to, or how far beyond, a substrate is to these thresholds.



♦ How to use DeSaltus 2.0:

DeSaltus 2.0 can be used in all types of irrigation systems across a range of growing media both before planting and once a crop is planted. The chosen DeSaltus 2.0 application rate must be maintained to obtain the desired response from the substrate. A deviation from the desired rate may lead to an unsatisfactory performance from DeSaltus 2.0. Use the field application rates below:

DeSaltus 2.0 Target Application Rates	Final DeSaltus 2.0 field application rate emitted from the drip (ml)	Final DeSaltus 2.0 field application rate emitted from the drip (L)
Continuous inclusion	0.025	0.000025
Moderate unwanted nutrient accumulation	0.050	0.000050
High unwanted nutrient accumulation	0.075	0.000075
Extremely high unwanted nutrient accumulation	0.100	0.000100

♦ To calculate the final DeSaltus 2.0 field application rate when applying via the stock tank, you will need to know:

- The stock tank size e.g., 1000L IBC
- The fertigation field application rate e.g., 1:100

The information can be entered into this simple calculation:

$$\text{DeSaltus 2.0 volume (L)} \div \text{stock tank size (L)} = \text{Stock tank dilution (L)}$$

$$\text{Stock tank dilution (L)} \div \text{Field application rate (L)} = \text{Final DeSaltus 2.0 field application rate (L)}$$

In a worked example to target a moderate DeSaltus 2.0 field application rate of 0.05 ml with these parameters:

- DeSaltus 2.0 volume = 5L
- Stock tank size = 1000L
- Field application rate = 1:100

will produce this calculation:

$$5\text{L (DeSaltus 2.0 volume)} \div 1000\text{L (stock tank volume)} = 0.005\text{L}$$

$$0.005\text{L} \div 100\text{L (fertigation field application rate)} = 0.00005\text{ L (final DeSaltus 2.0 application rate)}$$

$$\text{To convert L to ml: } 0.00005\text{L} \times 1000 = 0.05\text{ ml (final DeSaltus 2.0 application rate)}$$

♦ Do not tank mix with pesticides when the crop is showing deficiency symptoms, is under stress or in adverse weather conditions. Do not mix concentrated DeSaltus 2.0 with chlorine sources such as bleach. DeSaltus 2.0 is physically compatible with most soluble fertilisers. For more information contact OMEX Horticulture on 01533 760011.