



Solufeed Sodium Free MnEDTA chelate

*Advanced formulation without
sodium*

Uses

Can replace traditional sodium based MnEDTA products in all applications.

As an efficient manganese source in hydroponics and fertigation particularly in situations where excess sodium is an issue. Such as in recirculating systems and sodic or saline soils.

Useful where high solubility is required such as in creating stock tank solutions.

Benefits

Sodium free formulation so ideal for situations where sodium levels in the soil or feed solution are an agronomic issue.

High solubility for the confident preparation of concentrated stock solutions.

Supplied as free flowing, dustless spray agglomerated microgranules for ease of use.

Contains 12.5 % water soluble manganese, high analysis for lower rates of use.

Compatible with soluble phosphates thereby remaining effective in hydroponics and liquid feed systems.

Analysis

EC FERTILISER

A microgranular formulation of manganese dipotassium ethylenediaminetetraacetic acid (MnEDTA) containing:

Water soluble Mn:	12.5 %
Mn chelated by EDTA:	12.5 %

Practical pH stability range: 4.0 – 7.0 in aqueous solution.

Chemical/physical data

Molecular formula:	C ₁₀ H ₁₂ O ₈ MnK ₂
Appearance:	White microgranules
Solubility:	TBA grams per litre at 20°C
Bulk density:	0.85
Harmonised Tariff No:	2922500090

Directions for use

Hydroponics/fertigation nutrient solutions

1ppm (18.18 µmol/l) iron can be achieved by adding 6.5 grams of *Solufeed Sodium Free MnEDTA Chelate* per 1,000 litres of final feed solution. Usually achieved by making up concentrated stock tank and then diluting.

Foliar application

Solufeed Sodium Free MnEDTA Chelate should be dissolved in a convenient volume of water to suit the spraying machine being used and the target crop leaf area. The following points should be observed:

- 1 The sprayer should be fitted with nozzles that produce a fine mist.
- 2 Only sufficient spray solution should be applied to coat the leaves and stems with a film of moisture with little or no "run off".
- 3 Spraying should be carried out on a calm day BUT NOT DURING STRONG SUNSHINE OR HIGH TEMPERATURES. The best time is late afternoon or evening.
- 4 If rain is imminent, spraying should be postponed. If rain falls within 4 hours of spraying, the crop should be re-sprayed 3 or 4 days later.

Application rates, general

Solufeed Sodium Free MnEDTA Chelate may be applied in one application of 1.0 kilograms per hectare, but optimum results can be expected if repeat applications are used. In general, foliar applications should be started early in the season as soon as there is sufficient leaf area to absorb the spray.

NB Fruit Crops

Do not exceed a solution of 0.1% (1g/l) for any one or combination of Solufeed chelates. Some fruit varieties and cultivars can exhibit unpredictable sensitivity to EDTA chelates. Where local experience of successful use is not available, we strongly recommend small-scale test applications before wide spread use.

Water Volume

The amount of *Solufeed Sodium Free MnEDTA Chelate* to be applied should be mixed with a volume of water appropriate to the crop leaf area of the type of spraying machine being used. Typically,

Arable crops: 200-600 litres per hectare.
Fruit crops: 500-1000 litres per hectare.

NB: Do not exceed a solution concentration of 0.1% (100 grams per 100 litres of water).

General information

Solufeed Sodium Free MnEDTA Chelate gives best results when crops have adequate supplies of water and major nutrients and are not under stress for any other reason. Conditions that are responsible for one particular deficiency can also induce deficiencies of other micronutrients. Always ensure that deficiencies are confirmed before treatment is carried out.

Mixing With Water

Simply add the microgranules to water while it is being agitated. Continue agitation for a short while to ensure complete dissolution.

Compatibility

Solufeed Sodium Free MnEDTA Chelate is compatible with other *Solufeed* chelates and with solutions containing soluble phosphates such as liquid feeds.

Technical service

Please contact Solufeed at the address below for assistance.

Packaging

10 x 1 kg and 25 kg

Precautions

Statutory Caution: To be used only where there is a recognised need. Do not exceed the appropriate dose rate.

No health hazard is involved when *Solufeed Sodium Free MnEDTA Chelate* used as directed.

No special precautions are necessary for transport by air, sea, rail or road.

Storage

Solufeed Sodium Free MnEDTA Chelate should be kept in a dry place and protected from extremes of temperature.

Re-seal partly used packs tightly.

Detailed health and safety information may be found on the relevant Material Safety Data Sheet (MSDS) available on request from the address below. This should be read fully before use.

Important

The information in this document has been prepared carefully and is provided in good faith. The application, use and processing of any material together with regulatory compliance is the absolute responsibility of the Buyer. All technical information or other advice provided by the Seller in any form is given without warranty to the full extent provided by law.

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