

## Features and Benefits

- ❖ Sodium free formulation so ideal for situations where sodium levels in the soil or feed solution are an agronomic issue.
- ❖ Very high solubility for fast preparation of concentrated stock solutions.
- ❖ Source, stock and measure out only one product providing all six micronutrients.
- ❖ Supplied as free flowing, dustless microgranules, so easy and pleasant to use.



Solufeed Sodium Free TEC™

- ❖ Compatible with soluble phosphates thereby remaining effective in feed solutions.
- ❖ Useful counter ion fertilizer contribution (K or NH<sub>4</sub>).
- ❖ Non-hazardous to store, handle and use.

### Solufeed Ltd

The Depot, Chichester Road, Sidlesham Common,  
Chichester, West Sussex PO20 7PY

Tel: +44(0)1243 554090 enquiries@solufeed.com

[www.solufeed.com](http://www.solufeed.com)

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## Sodium Free TEC™

An advanced, carefully formulated and fully chelated micronutrient source, without sodium, for modern hydroponic systems and foliar feeding.



Improved version of proven benchmark micronutrient fertilizer.

*Sodium free.*

**Fully chelated.**

**Very high solubility for creating stock solutions fast.**

**Advanced dust free formulation.**

**Ideal for recirculating systems.**

**NEW**

## Introduction

Solufeed TEC™ (Trace Element Compound) was developed many years ago to provide growers with an effective, convenient and one-stop source of all six micronutrients. The product avoided the need to source, stock and measure out six separate raw materials and eliminated potentially costly dosing errors.

The micronutrient content and relative proportions were chosen to cater for the needs of most plant species.

Over the years Solufeed TEC™ has undergone a number of developments and advances culminating in the latest sodium free and enhanced solubility formulation – Solufeed *Sodium Free* TEC™.

Solufeed *Sodium Free* TEC™ is complimented by a range of sodium free copper, iron, manganese and zinc chelates available as liquids or microgranules.

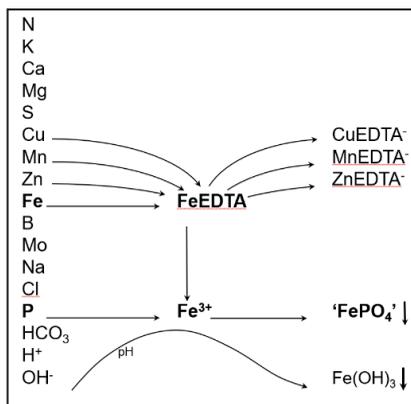
## Why sodium free?

Excess sodium (Na) reduces the uptake of plant nutrients through competition and disrupts water movement within plant tissues. Both can lead to leaf/root damage, plant losses and poor productivity.

High levels of sodium in soils can cause “slumping” leading to spoiled soil structure and unhealthy root zone conditions.

## Why fully chelated?

A typical nutrient solution contains over 17 elements or compounds in a state of dynamic equilibrium. This is illustrated diagrammatically below.



In traditional hydroponic/fertigation systems only the iron is supplied as a chelate (eg EDTA) while the other metallic micronutrient cations (copper, manganese and zinc) are supplied as sulphates. The laws of chemistry dictate that a certain amount of the chelated iron will be substituted by these other cations. This “preferential chelation” results in ionic iron being released which is then free to react with phosphates and hydroxides to produce insoluble precipitates. These precipitates cause “rusty roots”, feed line blockages and reduced nutrient availability.

By contrast, Solufeed *Sodium Free* TEC™ is specially formulated with all the metallic micronutrients (copper, iron, manganese and zinc) fully chelated by EDTA. This prevents any preferential chelation, subsequent reactions and precipitate formation. The result is a clear, problem free and nutritionally efficient solution.



The photograph here shows a beaker of nutrient solution prepared with Solufeed *Sodium Free* TEC™ to the left compared to a similar solution prepared traditionally with sulphates. The difference is clear!

## Solufeed *Sodium Free* TEC™

A sodium free formulation of copper, iron, manganese and zinc EDTA (potassium or ammonium based) chelates together with inorganic boron and molybdenum sources. Complies to the definition of an EC FERTILISER.

### Analysis

(% w/w)

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Boron (as polyborate)	0.92
Copper (as EDTA)	0.23
Iron (as EDTA)	8.27
Manganese (as EDTA)	2.00
Molybdenum (as molybdate)	0.15
Zinc (as EDTA)	1.16

Packaging: 1 kg cartons and 10 kg pails