

# **SICO IRISH “SUPERIOR 30 GOLD” CONCENTRATE**

*All Liquid seaweed purpose plant, fruit & vegetable feed & Plant tonic & Root elongater.*

**This is an organic certified product**

*- Made in Ireland -*

10/2018

## **1/ INTRODUCTION & PRODUCT DESCRIPTION**

SICO IRISH “SUPERIOR 30 GOLD” CONCENTRATE is a highly-concentrated alkaline extract from *Ascophyllum nodosum* seaweed. The *Ascophyllum nodosum* used to make SICO IRISH “SUPERIOR 30 GOLD” CONCENTRATE is sourced from the unpolluted bays and inlets on the west and south west coasts of Ireland.

SICO IRISH “SUPERIOR 30 GOLD” CONCENTRATE is highly concentrated pure liquid seaweed for use as a foliar spray or root feed on all vegetables, fruits, shrubs, flowers and lawns as well as agricultural crops. Formulated as an ideal root elongator and plant tonic for organically grown produce, it is rich in natural nutrients and over 60 trace elements. This ensures healthy, vigorous plants which produce better quality crops and flowers, which are more able to resist pests and disease.

### **\* Typical analysis**

- liquid seaweed 30% w/v
- NPK 0.0.6

## **2/ GOLDEN ADVANTAGES**

### **Crop Performance and yield**

- **Marketable grade**
- **Root growth**
- **Soil bacteria counts**

### **\* Performance & results**

SICO IRISH SUPERIOR 30% GOLD CONCENTRATE seaweed extract significantly increases crop performance and yield in a number of growth conditions. In particular, significant increases in yield are achieved in conditions of a biotic stress when using SICO IRISH SUPERIOR 30% GOLD CONCENTRATE, effects which are observed to manifest in the crop as a whole and regionally within the root-zone and stem. Superior Gold also demonstrates substantial increases in lettuce weight, leaf number and stem and leaf size, in non-biotic stress conditions. Thus, SICO IRISH SUPERIOR 30% GOLD CONCENTRATE means increasing crop growth, performance, yield and quality in both stressed and non-stressed conditions.

### **\* Marketable grade**

SICO IRISH SUPERIOR 30% GOLD CONCENTRATE seaweed extract is shown to favourably alter the ratio of perfect: misshapen fruit. These effects are observed to be significant over a total harvest period spanning three-four months and give rise to an increased yield of high-grade fruit (approximately 10%) and a corresponding reduced yield of low-grade fruits. In addition, significant increases in average fruit size can also be achieved.

### **\* Root growth and elongation**

SICO IRISH SUPERIOR 30% GOLD CONCENTRATE seaweed extract has a dual affect within the root zone, giving rise to significant increases in root growth while also influencing the dynamics of root colonizing bacteria. In particular, SICO IRISH SUPERIOR 30% GOLD CONCENTRATE has been shown to stimulate rooting and give rises to increased root numbers.

### **\* Soil bacteria counts**

SICO IRISH SUPERIOR 30% GOLD CONCENTRATE significantly influences the dynamics of soil microbiota over time. In particular, *Pseudomonas spp.* numbers substantially increase in the root zone following application with this seaweed extract over a four month period. The importance of soil microbial dynamics in crop health is well known; with species such as *Pseudomonas fluorescens* commonly used as bio control agents to enhance crop health and responsiveness to pathogen. SICO IRISH SUPERIOR 30% GOLD CONCENTRATE may be used therefore, as a natural means of increasing soil bacteria numbers, particularly those which colonize the root zone.

### **\* High antioxidant potential**

SICO IRISH SUPERIOR 30% GOLD CONCENTRATE seaweed extract contains exceptionally high levels of natural antioxidants, greatly exceeding levels found in green tea and ascorbic acid. This unique property of SICO IRISH SUPERIOR 30% GOLD CONCENTRATE is likely to impart a myriad of beneficial effects on crop health, growth, quality and yield. Indeed, a consistent feature of trials undertaken on this seaweed extract to-date is the optimal effectiveness of the product when used at lower rather than higher applications rates. Thus, SICO IRISH SUPERIOR 30% GOLD CONCENTRATE seaweed extract represents a unique and economical source of natural antioxidants.

### **3/ KEY FEATURES OF SICO IRISH SUPERIOR 30% GOLD CONCENTRATE**

- Extract from *Ascophyllum nodosum* seaweed.
- Harvested off the unpolluted west coast of Ireland.
- Enhances performance, yield, marketable grade, root growth & soil bacteria counts.
- Very high antioxidant potential.

### **4/ APPLICATIONS : Foliar spray or fertirrigation application.**

- Volume of 3-4L per 500L of water per hectare.
- General application timings: every 3 weeks of growing season.
- Specific application timings are on the label.
- Can be mixed with other active ingredients.

#### **\* Application notes**

Application rates can vary depending on conditions, climate and the package of nutrients being applied. The following general principles apply to all applications of liquid seaweed concentrate.

- "Little and Often" is the best application guide. Research has shown that the best results are achieved by frequent, low dose applications. Applying seaweed in a single bulk application is not recommended.
- "Cumulative Effect" means that ongoing use of seaweed is better than single applications. Most users agree that using small amounts regularly each year achieves the best results.
- "Enhancement Effect" has been identified by growers who use seaweed regularly. This means that the benefits from other nutrients applied in a mix are enhanced by the addition of a small amount of seaweed in a spray tank.
- On its own the optimum application rate is normally in the range 2-6 ltr/ha.
- In a mix, application rates between 1-2 ltr/ha are beneficial.
- The best timing of an application is at the first signs of the various stages of the plant growth cycle, like shooting, budding, flowering, fruit emergence etc.
- When mixing with other nutrients and/or tank mix materials, do a small jar test to confirm compatibility prior to making up your mix.

#### **\* Directions for use**

Shake well before use. Apply using a watering can. Invert bottle before use. Dilute 50 ml (10 capfuls) of SICO IRISH SUPERIOR 30% GOLD CONCENTRATE feed in 9 ltr (2 gals) of water.

Use weekly before and after flowering to improve flowering, fruit set and enhance fruit flavour.

- Germinating : dilute 25ml in 9 ltr (2 gals) of water and soak seed for 12 hours before sowing.
- Propagating & transplanting : dilute 50ml in 9 ltr (2 gals) of water and apply as a root drench only every 10-14 days during the growing season.
- Lawn : dilute 50ml in 9 ltr (2 gals) of water and spray at monthly intervals during growing seasons.
- Foliage application : dilute seaweed concentrate of 100ml to 50ltr water to each litre of concentrate prior to use.

### **5/ ENVIRONMENTAL IMPACT**

- Readily biodegradable, no residue. • Low application rate.

### **6/ PACKING**

- 10 lt cans x 72 per pallet (720 ltr) x 10 = 7,200 ltr/20ft container.
- 1000 lt IBC x 18 = 18,000 ltr/20ft container

### **8/ DISCLAIMER**

This is a concentrate liquid product. Do not apply directly to plant without dilution. Store out of direct sunlight in a cool frost free place, between 0 °C and 30 °C. Seller guarantee shall be limited to the terms set out on the label and subject thereto. Results may vary. The buyer assumes the risk to persons arising from the use or handling of this product on that condition.

**CERTIFICATE OF ANALYSIS & TECHNICAL DATASHEET**

**GENERAL FEATURES**

Appearance	:	black / brown liquid
Odour	:	marine
Specific gravity	:	1.13 to 1.16
Solubility	:	≥ 99.5 % soluble
Concentration	:	≥ 300 g of dry matter/ltr

**CHEMICAL ANALYSIS GUARANTEED Analysis (min. – max.)**

ph	:	8.0 – 10.0
Inorganic matter	:	10.5 – 14.5 % w/w
Organic matter	:	12.0 – 14.0 % w/w

**MACRONUTRIENTS GUARANTEED Analysis (min.)**

Potassium (K)	:	4.0 % w/w
Potassium oxide (K <sub>2</sub> O)	:	4.8 % w/w

**HEAVY METALS GUARANTEED Analysis (limit)**

Cadmium (Cd)	:	< 0.3 mg/kg
Chromium (Cr)	:	< 0.6 mg/kg
Copper (Cu)	:	< 0.6 mg/kg
Inorganic Arsenic (iAs)	:	< 1.3 mg/kg
Organic Arsenic (oAs)	:	< 10.00 mg/kg
Lead (Pb)	:	< 5.00 mg/kg
Mercury (Hg)	:	< 0.12 mg/kg
Nickel (Ni)	:	< 0.6 mg/kg
Tin (Sn)	:	< 0.36 mg/kg
Zinc (Zn)	:	< 15.5 mg/kg

SICO IRISH "SUPERIOR 30 GOLD" CONCENTRATE is a natural product. Its properties may vary between batches and seasons.

SICO IRISH "SUPERIOR 30 GOLD" CONCENTRATE is certified for use by IOFGA.