



**PRODUCT INFO
& DATASHEET**

SICOGREEN®* DRIP -GH (Greenhouse & Hydroponics)

New innovative line of water soluble fertilisers (WSF) for greenhouse and hydroponics.

INTRO

09/2023

1. INTRODUCTION

SICOGREEN DRIP -GH is a new innovative line of water soluble fertilisers (WSF) fit for all crop fertigation & irrigation systems in greenhouses and hydroponics complying with the new EU Fertiliser regulation EU/2019/2019.

Avoiding chloride containing raw materials they **can also be used in chloride sensitive open field crops too.**

2. ADVANTAGES

- No dangerous good (ADR) classification, saving transport and storage costs.
- SICOGREEN DRIP contains high quality raw materials for N, P and K and includes secondary elements as Magnesium, Sulfur and CTE (Chelated Trace Elements) with variation depending on formula and target application.
- **SICOGREEN DRIP -GH (greenhouse & hydroponics) and SICOGREEN DRIP -OFC (open field crops) are optimised for the respective crop demands at main growth stages.**
- These formulas are designed for low pH and low EC values.
- The high solubility (also in cold water) is the result of our decades-long experience in the formulation of water soluble fertilisers.
- SICOGREEN DRIP formulas are highly concentrated formulas with broad nutrient supply **offering price leadership in this segment.**
- SICOGREEN DRIP formulations show good storability and easy handling.

3. USE

SICOGREEN DRIP -GH (greenhouse & hydroponics) excels by different NPK Ratios and variable ratios of Nitrate Ammonium. **This allows flexible reaction to irrigation water hardness** and crop needs at different growth stages.

SICOGREEN DRIP -GH (greenhouse hydroponics) is complemented with a balanced (EDTA chelated) mix, allowing use in a variety of crops. Complementary use of other liquid Foliar products can address crop and soil specific needs.

4. SURVEY OF AVAILABLE SICOGREEN DRIP -GH (greenhouse & hydroponics) WSF formulas

A/ Balanced NPK (green colored) : allrounders from start to flowering
1/ 15.15.15 + 28 SO ₃ + CTE
2/ 16.16.16 + 23 SO ₃ + CTE
B/ High P NPK (orange colored) : starter & root development and good flower setting
3/ 11.37.11 + 2 MgO + 11 SO ₃ + CTE
C/ High K NPK (purple colored) : finisher: improved flowering and fruit set & fruit quality
4/ 8.17.40 + 5 SO ₃ + CTE
5/ 10.12.30 + 24 SO ₃ + CTE
D/ Low P NPK (pink colored) : intermediate formula: after flowering to fruit setting for better harvest quantity and quality
6/ 12.8.31 + 2 MgO + 14 SO ₃ + CTE
7/ 14.5.30 + 18 SO ₃ + CTE
8/ 15.7.27 + 18 SO ₃ + CTE
E/ High N NPK (blue colored) : best formula for vegetative growth
9/ 19.6.6 + 47 SO ₃ + CTE

5. STORAGE & PACKING

SICOGREEN DRIP -GH shows a good storability and do not require special storage conditions (no dangerous good classification and no frost-free storage).

In 25 kg multicolor pp bags (with product label) on 1200 kg net H.T. (heattreated) pallet x 20 = 24 MT/20ft.

*** This range also exists under our other brands for water soluble NPK's DAVYSOL / PRIMOSOL / LOUSOL / PROFISOL / MAESOL.**

Our SICOGREEN and LOUSOL brands also exist in 10 kg bags, on pallets of 1000 kg , 20 MT / 20 ft

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*** HOW TO SELECT YOUR MOST SUITABLE FORMULATION**

STARTER	GROWER	FINISHER
11.37.11 + 2 MgO + 11 SO ₃ + CTE	16.16.16 + 23 SO ₃ + CTE	8.17.40 + 5 SO ₃ + CTE
10.12.30 + 24 SO ₃ + CTE	12.8.31 + 2 MgO + 14 SO ₃ + CTE	12.8.31 + 2 MgO + 14 SO ₃ + CTE
15.15.15 + 28 SO ₃ + CTE	14.5.30 + 18 SO ₃ + CTE	14.5.30 + 18 SO ₃ + CTE
16.16.16 + 23 SO ₃ + CTE	15.7.27 + 18 SO ₃ + CTE	15.7.27 + 18 SO ₃ + CTE
19.6.6 + 47 SO ₃ + CTE	19.6.6 + 47 SO ₃ + CTE	16.16.16 + 23 SO ₃ + CTE
	8.17.40 + 5 SO ₃ + CTE	

Rates according to crop specific needs. Ask your local agronomist for recommendations for your crop or consult us.

SICOGREEN^{®*} DRIP -GH (Greenhouse & Hydroponic)

Avoid excessive Electrical Conductivity (EC) in irrigation on water with safe use of SICOGREEN DRIP -GH water soluble fertilisers (WSF)

SALES RATIONALE

Electrical Conductivity (EC) is a general measure of salts dissolved in the water. An irrigation source is best if EC levels fall between 0.2 and 1.2 mS/cm. When using irrigation water with a high EC, a growing media with more drainage may be necessary. Since the measurement does not identify which elements are helpful or harmful in the water, a complete nutrient analysis of water is necessary.

*** FLEXIBLE ANSWER TO WATER ALKALINITY WITH SICOGREEN DRIP -GH (WSF).**

The most critical item in an irrigation water sample is the measure of bicarbonate and carbonate levels. It has a strong influence on growing media pH.

- Alkalinity is due to limestone that has dissolved into a ground water source from the bedrock. A certain amount of alkalinity is good, as it will buffer the solution from acidic influences such as peat moss and fertilizer, maintaining the proper media pH (soilless media: 5.2-6.3).
- In order to counter extremely high water alkalinity, mineral acid or acidic fertilizers may need to be injected.
- Excessively high or low alkalinity will directly impact how far your media pH will fluctuate upwards or downwards. **This will affect the availability of micronutrients in the growing media.**
- Low alkalinity or acidic water may lead to very low growing media pH and micronutrient toxicities, while high levels of alkalinity can increase the growing media pH over time and lead to micronutrient deficiencies.

Alkalinity concentration	
Low	< 60 ppm CaCO ₃
Medium	60-250 ppm CaCO ₃
High	250-300 ppm CaCO ₃

Sicogreen Drip -GH	Nitrogen concentration ppm									
	50	100	150	200	250	300	400	500	600	700
8.17.40 + 5 SO ₃ + CTE	0.77	1.48	2.19	2.48	3.48	4.13	5.24	6.49	7.64	8.78
10.12.30 + 24 SO ₃ + CTE	0.73	1.54	2.16	2.81	3.37	4.06	5.18	6.27	7.40	8.45
11.37.11 + 2 MgO + 11 SO ₃ + CTE	0.53	1.03	1.52	1.97	2.40	2.81	3.61	4.44	5.33	6.28
12.8.31 + 2 MgO + 14 SO ₃ + CTE	0.63	1.18	1.71	2.24	2.75	3.24	4.17	5.14	6.04	7.08
14.5.30 + 18 SO ₃ + CTE	0.43	0.81	1.18	1.57	1.91	2.27	2.85	3.62	4.28	4.97
15.7.27 + 18 SO ₃ + CTE	0.50	1.00	1.48	1.93	2.36	2.80	3.69	4.48	5.32	6.09
15.15.15 + 28 SO ₃ + CTE	0.55	1.02	1.57	1.99	2.40	2.90	3.66	4.54	5.25	6.03
16.16.16 + 23 SO ₃ + CTE	0.46	0.91	1.32	1.77	2.15	2.57	3.26	3.95	4.76	5.56
19.6.6 + 47 SO ₃ + CTE	0.50	0.98	1.46	1.89	2.29	2.73	3.54	4.31	5.01	5.75

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