



**PRODUCT INFO
& DATASHEET**

SICO HUMIPLEX-15 liquid

Liquid solution of 12% humic acid + 3% fulvic acid (w/w)

1. PRODUCT SPECIFICATIONS

Description

Brand name:	SICO HUMIPLEX-15
Chemical name:	liquid solution of humic acids and fulvic acids
Appearance:	liquid, black

Chemical composition

	<u>w/w</u>	<u>w/v</u>	<u>g/l</u>
Total humic extracts:	15% w/w	17.2% w/v	172 g/l
Humic acid:	12% w/w	13.8% w/v	138 g/l
Fulvic acid:	3% w/w	3.4% w/v	34 g/l
Potassium Oxide (K ₂ O):	3.5% w/w	4% w/v	40 g/l

Physical properties

Density:	1.15 kg/l
pH:	9 – 9.5 (pure product)
Crystallisation temperature:	- 5° C

2. AVAILABLE PACKINGS

IBC 1000l / 220l / 20l / 10l / 5l / 1l

3. APPLICATION

1) **Directions for use:** Proper timing, rate and placement of SICO HUMIPLEX is important for desired results and highly dependent on stage of crop growth, soil fertility levels and environmental conditions.

2) **Mixing directions:** SICO HUMIPLEX is compatible with many liquid fertilisers, micronutrients, pesticides and water. Addition of SICO HUMIPLEX to these products should not be done without first testing compatibility on a small scale.

* When mixing with water, fill container half full, add SICO HUMIPLEX, then the remaining water.

* When mixing with pesticides, dilute SICO HUMIPLEX with water prior to the addition of buffering agents and pesticides. Do NOT tank mix with carbonate-based pesticides, as efficacy will decrease. Follow all directions and precautions on pesticide labels prior to mixing with SICO HUMIPLEX.

Ensure adequate agitation in all situations. DO NOT mix SICO HUMIPLEX with calcium nitrate, phosphoric acid, zinc sulphate or other solutions with a pH of less than 6.0.

* **CAUTION:** When combined with aqua ammonia, vapour releases may result in pressure build-ups. For such mixtures, only use mixing and application equipment that are vented and/or have pressure relief valves.

3) **Agronomic uses:** SICO HUMIPLEX may be applied to all agricultural and horticultural crops.

* **Foliar applications:** Use 2.5 - 5 litres SICO HUMIPLEX per hectare, beginning when plants are 3 - 4 weeks old. For improved growth and yield.

* **Seed and potato seed piece treatments:** Apply 1 - 1.5 litres SICO HUMIPLEX in 40 - 50 litres of water as a seed treatment spray or dip.

* **Transplant water applications:** Apply 2 litres SICO HUMIPLEX per 200 litres of transplant solution (4 - 8 litres product per hectare).

* **Pre-plant in-furrow and side-dress applications:** Apply 4 litres SICO HUMIPLEX per 50 litres of actual liquid plant nutrients. For example, if 250 litres of a 10-34-0 liquid fertiliser contains 25 kg nitrogen (N) and 85 kg Phosphate (P₂O₅), i.e. 105 kg total plant nutrients, use 8 litres of SICO HUMIPLEX per 250 litres of 10-34-0. Band or broadcast SICO HUMIPLEX in tank mixture with, or sequentially to, fertiliser applications.

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

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SICO FERTILISERS
EVERY TIME THE RIGHT SOLUTION



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- * Transplants & cuttings: Add 2 litres SICO HUMIPLEX per 200 litres transplant solution. Refer to following section for use after transplants and cuttings have become established.
- * Via irrigation systems: Use at 1st watering after planting: 2.5 - 10 litres per hectare, repeat every 14 days.
- * Established ornamentals (trees, bushes, etc.): Use 2 litres per 200 litres water every 45 - 60 days during growing season. As part of a fertilisation program, apply 4 litres per 50 kg actual plant nutrients (see above).
- * Landscape & golf course turf: Apply 10 - 20 litres per hectare in spring and autumn.

Further indicative application rates:

Crops	Ratio	0.5-2 kg/hectare
Rice, Wheat, Corn, Beans	1: 800 1: 1000	Seeding 12-24 hours once at leaf stage, tassel stage and grouting stage
Spinach, Cabbage, Lettuce, Radish	1: 1200 1: 1000	Once at young plant stage 2-3 times every 10-15 days at growth stage
Tomato, Pepper Eggplant	1: 1200 1: 1000	Once at young plant stage 3-4 times every 15-20 days at growth stage
Cucumber, Calabash, Watermelon, Honey melon	1: 1200 1: 1000	Once at young plant stage 3-4 times every 15-20 days at growth stage
Lichee, Logan orange, Orange, Mango, Banana	1: 1000	Once 20-30 days after leaf, once 15-20 days after fruit
Apple, Pear, Peach, Apricot, Chinese Date, Cherry	1: 1000	Once 15-20 days after leaf to harvest (1.2 - 1.5 kg/hectare)
Grape	1: 1000	once each during leaf, flower, fruit stages
Strawberry	1: 1000	once each during young plant, leaf, flower, fruit stages.
Cotton	1: 1200 1: 1000	Once at young plant stage Once during budding, wadding stages
Tobacco	1: 1200 1: 1000	Once at young plant stage 2-3 times during leaf, budding stages
Medicinal plants	1: 1000	Once 15-20 days during growth stage
Turf, Flowers	1: 1000	Once 15-20 days during growth stage

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