

HUMIC TOTAL is derived from Leonardite which is a complex aggregate of brown to dark coloured amorphous organic substances that originates during the decomposition of plant and animal residues by microorganisms. Humic acid is known to be among the most bio-chemically active materials found in soil.

Humic acids are not fertilizers as they do not directly provide nutrients to plants. However they are recognized as having a very significant beneficial impact on the growth and cultivation of crops (vegetable & non-vegetable), citrus, turf, and flowers, particularly in organically-deficient soils due to their numerous benefits.

HUMIC TOTAL is formulated as a water soluble concentrate which can provide the following benefits:

- Enhanced root growth by improved soil structure and water holding capacity
- Improved soil aeration
- Stimulates activities of beneficial soil micro-organisms in rhizosphere
- Assists in detoxification of soils
- Stabilises nitrogen and improves nitrogen efficiency
- Natural chelating agent that aids nutrient uptake
- Complexes with phosphate to reduce lock-up of this nutrient
- Potassium content is available as a plant nutrient
- Stabilizes soil pH
- Improves soil wetting

Compatibility:

HUMIC TOTAL is compatible with many products but **do not** mix with liquid calcium nitrate; phosphate fertilizers or sulphate based trace elements.

Precautions:

HUMIC TOTAL can leave a dark residue which may stain fruit and vegetables when applied as a foliar spray. This residue is harmless and can be removed by washing but it is best to avoid spraying just prior to harvest.

May be unsuitable as a foliar spray on cut flowers.



HUMIC TOTAL

Reg. No. B4265 Act / Wet No. 36 / 1947

A soluble potassium humate powder for use on various crops to improve the soil structure.

'n Oplosbare kalium humusagtige poeier vir gebruik in verskillende gewasse om grond struktuur te verbeter.

FERTILIZER GROUP CODE:	2	MISSTOF GROEP KODE:
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GUARANTEED MINIMUM ANALYSIS/ GEWAARBORGDE MINIMUM ANALISE

Humic acid.....800g/kg.....Humussuur
Potassium.....100 g/kg.....Kalium

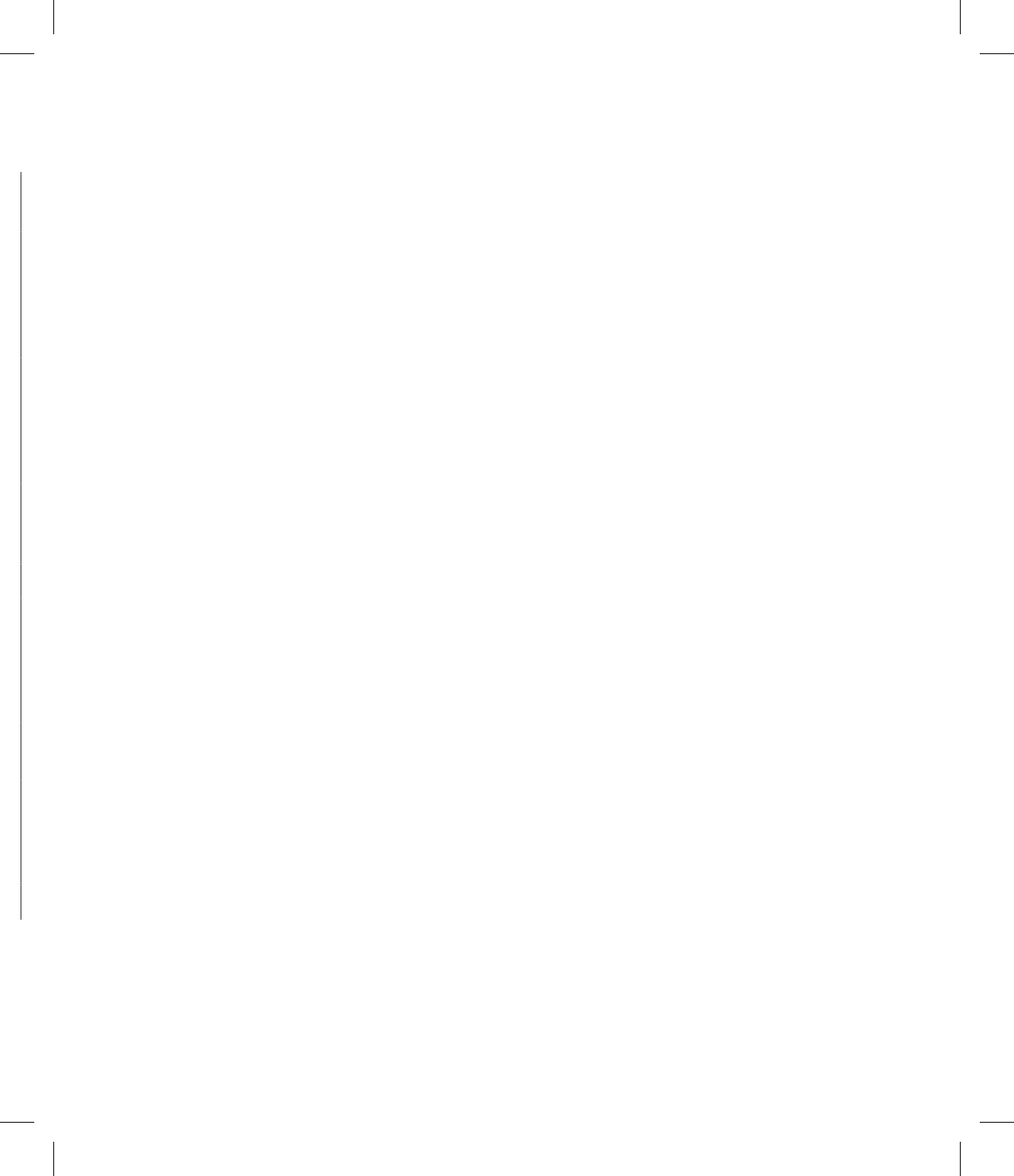
REGISTRATION HOLDER/ REGISTRASIEHOUER

Safeguard Crop Protection (Pty) Ltd

Co. Reg. No. 1971/012583/07
61 Marshall Drive
Old Mill Industrial Park
Mount Edgecombe
4300
Tel: (031) 003 3486

Directions for use:

HOME AND GARDEN	METHOD:	APPLICATION:
Soil drench and foliar spray	Add 1kg of product to 5 litres of water and mix thoroughly. For foliar application, decant mixture carefully to ensure that any insoluble material does not clog the spray nozzle.	Drench the base of the plant around the root zone.
Soil surface application	1-5g (Heaped Tablespoon) per square metre	Sprinkle on the soil surface and blend into the upper layer of soil with a rake. Water after incorporation.
HUMIC TOTAL is ideal for use in home gardens to enhance plant vitality. When transplanting shrubs and trees apply 5-10g to the base of the planting hole and mix well before placing the plant and covering.		
AGRICULTURAL	METHOD:	APPLICATION:
Soil application	8-12kg/ha at the time of soil preparation or in planting furrow	The rate selected will depend on the soil P and organic matter content. Can also be blended at a rate of 2% with the normal NPK fertilizers used.
Fertigation	Dilute with water before injecting into the system.	Apply via the irrigation system at a rate of 8kg/ha.
Foliar application	Can be mixed with other products but check for compatibility on a small scale before preparing a bulk mix.	Apply at a rate of 300 – 500g HUMIC TOTAL per 100 litres of water
Apply 3 – 4 times during the growing season at 3 week intervals		



HUMIC TOTAL is afkomstig van Leonardite wat 'n komplekse versameling van bruin tot donker gekleurde struktuurlose organiese stof is, wat ontstaan gedurende die ontbinding van plant- en dier residue deur mikro-organismes. Humussuur is bekend as een van die mees bio-chemies aktiewe materiale in die grond.

Humussure is nie kunsmis nie, aangesien dit nie direk voedingstowwe aan die plant verskaf nie. Alhoewel hulle erken word dat dit 'n beduidende voordelige impak het op die groei en bewerking van gewasse (groente & nie-groente), sitrus, turf, en blomme, veral in organiese gebrekkige gronde ag hul verskeie voordele.

HUMIC TOTAL is geformuleer as 'n water oplosbare konsentraat wat die volgende voordele kan verskaf:

- Verbeter wortelgroei deur verbeterde grondstruktuur en water terughoudende kapasiteit
- Verbeter grond belugting
- Stimuleer aktiwiteite van voordelige grond mikro-organismes in rhizosfeer
- Help met ontgiftinging van grond
- Stabili eer stikstof en verbeter stikstof effektiwiteit.
- Natuurlike chelasie agent wat voedingstof opname bevoordeel.
- Samestelling met fosfaat om opsluit van hierdie voedingstof te verminder.
- Kalium inhoud is beskikbaar as 'n plantvoedingstof
- Stabiliseer grond pH
- Verbeter grond benatting

Verenigbaarheid:

HUMIC TOTAL is verenigbaar met verskeie produkte maar moet nie gemeng word met vloeibare kalsium nitraat; fosfaat kunsmisse of sulfaat gebaseerde spoorelemente nie.

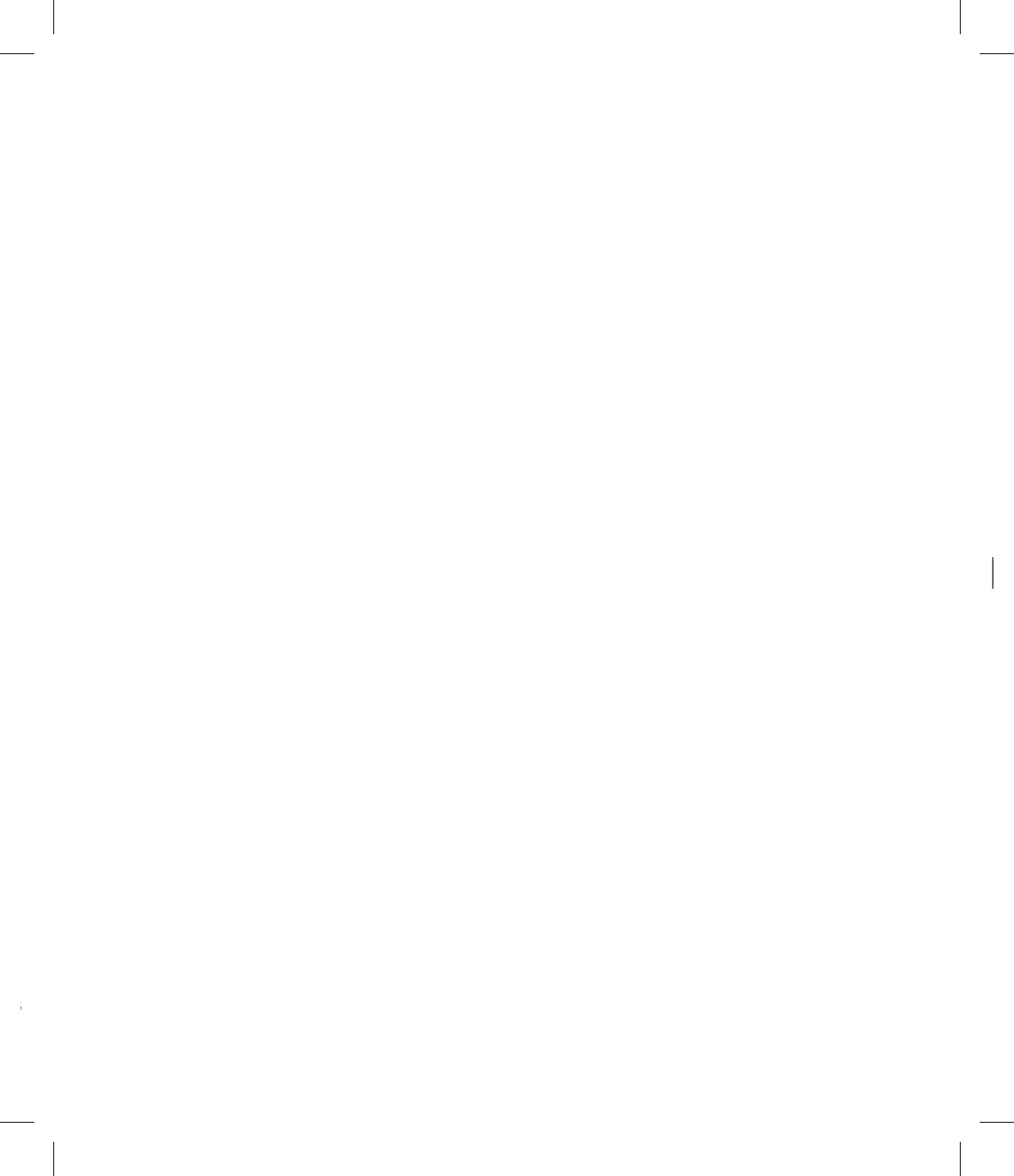
Voorsorgmaatreëls:

HUMIC TOTAL kan 'n donker residue agterlaat wat vrugte en groente kan vlek wanneer dit as 'n blaartoediening gespuit word. Hierdie residue is onskadelik en kan verwyder word deur dit te was, maar dit is beter om bespuiting net voor oes te vermy.

Mag ongeskik wees as 'n blaartoediening op snyblomme.

Gebruiksaanwysings:

HUIS EN TUIN	METODE:	TOEDIENING:
Grond deurweking en blaartoediening	Voeg 1kg van die produk by 5 liter water en meng deeglik. Vir blaartoediening, oorgiet mengsel versigtig om te verseker dat enige onoplosbare materiaal nie die spuitstuk verstop nie.	Deurweek die basis van die plant rondom die wortelsone.
Grondoppervlak toediening	1-5g (Opgehoopde Eetlepel) per vierkante meter	Sprinkel op die grond oppervlak en werk in die boonste laag van die grond met 'n hark. Gooi nat na ingemeng.
HUMIC TOTAL is ideaal vir gebruik in huistuine om plantgroeikrag te verbeter. Met verplanting van struik en bome dien 5-10g tot die basis van die plantholte toe en meng goed voordat die plant geplant word.		
LANDBOUKUNDIG	METODE:	TOEDIENING:
Grondtoediening	8-12kg/ha tydens die grond voorbereiding of in die plantvoor	Die dosis sal afhang van die grond K en organiese materiaal inhoud. Kan ook gemeng word teen 'n dosis van 2% met die normale NPK kunsmis wat gebruik word.
Sproeibemesting	Verdun met water voordat dit in die sisteem gevoeg word.	Dien toe deur besproeiingsstelsel teen 'n dosis van 8kg/ha.
Blaartoediening	Kan met ander produkte gemeng word maar let op na verenigbaarheid op klein skaal voordat op groot skaal meng.	Dien toe teen 'n dosis van 300 – 500g HUMIC TOTAL per 100 liter water
Dien toe 3 – 4 maal gedurende die groeiseisoen met 3 weke intervalle		





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