

SHAKE BEFORE USE

Crop4Life

BIO-STIMULANT

ACTIVE INGREDIENTS

Carbon Content	350 g / kg
Ethyl Lactate	40 g / L
Acetic Acid	40 g / L
Octanoic Acid	500 g / L
Bioflavonoids	150 g / L



REGISTERED & DISTRIBUTED BY

Bioconsulting Australasia Ltd
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MANUFACTURED BY

The Bio Consulting (Pty) Ltd
REG. N^o 2013/149402/07

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COUNTRY OF ORIGIN: SOUTH AFRICA



EMERGENCY CONTACT - NZ Poisons Centre 0800 POISON (0800 764766)

WITHOLDING PERIOD:

There is no withholding period prior to harvest, graze or fodder or re-entering into treated orchards or any other treated crop.

Treated seed can be used for feeding.

DANGER

- May be harmful if swallowed.
- Causes severe skin burns and eye damage.
- May cause damage to haematological system.
- Use only as directed.
- Store away from food and feeds.
- Keep out of reach of children, animals and uninformed persons.
- If medical attention is needed call POISONS CENTRE or doctor immediately. Have product label at hand. 0800 POISON – 0800 764 766
- Store in a cool dry place above 5°C in original containers.
- Always ensure lids of used containers are tightly closed when not in use.
- Although Crop4Life has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the method, time and accuracy of application.
- The registration holder furthermore does not accept responsibility for damage to crops, vegetation, environment or harm to man or animal or for lack of performance of Crop4Life concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration.
- Consult the supplier in the event of any uncertainty.



PRECAUTIONS:

- Avoid inhaling fumes and spray mist. If inhaled removed to fresh air and keep at rest in a position comfortable for breathing.
- In case of contact with the eyes, rinse immediately with plenty of water for at least 5 minutes. Remove contact lenses if present and easy to do.
- Wear protective clothing, rubber gloves and protective safety goggles or glasses in case of prolonged contact with the undiluted concentrate. Wash contaminated clothing before re-use. Wash hands thoroughly after handling.
- Prevent contamination of food, feed, drinking water and eating utensils with the undiluted concentrate. Do not eat drink or smoke around product. If swallowed rinse mouth. Do not induce vomiting.
- Spray drift containing Crop4Life will have no adverse effect on any crops, grazing, dams, open water or animals. Such crops, grazing, dams, open water, etc., will remain safe for human and animal consumption.
- When empty rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsing water to the contents of the spray tank.
- Destroy empty container by perforating and flattening it and never use for any other purpose.

PRODUCT DESCRIPTION:

Crop4Life is a complex of carbon compounds extracted mainly from citrus (bitter orange - *Citrus aurantium*), palm and coconut oil with an added blend of mild organic fruit grade ingredients (100% natural).

Organic Approved by Ceres.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

Crop4Life should not be tank mixed with fungicides, insecticides, growth regulators, surfactants, water soluble foliar nutrients and selective post emergence grass and broad leaf herbicides. **IF** there has been no experience or use of the combination in different crops previously; **consult your local supplier.**

Do not apply Crop4Life and foliar applied macro and / or micro nutrients as tank mixtures to fruit or berries with sensitive skins between set and harvest as fruit finish can be adversely affected, however Crop4Life and foliar nutrients can be applied alternatively in a program without any adverse effect.

IMPORTANT: To improve compatibility and coverage of the seeds, always add a wetting agent first to the mixture before mixing with Crop4Life and the other seed dressing products.

Do not combine Crop4Life with micro nutrient formulations as a seed dressing.

Mixing instructions:

SHAKE WELL BEFORE USE:

Always add Crop4Life first to a half filled spray tank, agitate properly and then add the rest.

Do not allow Crop4Life mixtures combined with other agrochemicals to stand overnight or for prolonged periods.

Always ensure thorough agitating during mixing and spraying.

GROUND APPLICATION:

The volume of Crop4Life per hectare is always based on high volume applications. For tree row crops a concentration of 50ml / 100L water is used when spray volume does not exceed 1000L / hectare. If high volume applications exceed 1000L spray mixture / hectare, do not apply more than 500ml Crop4Life / hectare.

See specific recommendations for perennial and annual crops below.

Do not spray when rain is expected soon after application.

Apply Crop4Life preferably under cool to mild conditions and ensure ambient temperatures do not rise above 25°C within two hours after application.

Always ensure thorough coverage of all above ground plant parts (also inside the canopy) for optimum performance.

Crops	Concentration / 100L and / or (dosage / ha)	Remarks
Citrus:	50ml (300- 500ml / ha)	For improved set, fruit size distribution, colour and the juice values. (Maturity Indices) For optimum fruit set commence sprays in the period two to four weeks after bud break followed by a 2 nd spray at the 80-100% petal drop stage. Apply a 3 rd spray 28 days later.

		<p>If high volume recommendations exceed 1000L spray mixture / ha do not apply more than 500ml Crop4Life / ha. If less than 1000L is applied per ha not apply less than 300ml Crop4Life / ha (non-bearing trees).</p> <p>For non-bearing trees follow the same protocol as for deciduous fruit.</p>
<p>Deciduous fruit: Apples, pears, plums, apricots, peaches, nectarines, pomegranates, persimmons, tree nuts (Almonds, Pecans, Pistachio, Wall nut and Hazelnut.)</p>	<p>50ml (300-500ml / ha)</p>	<p>For improved of set, fruit finish, fruit size, firmness and colour (red apple, pear and plum varieties) where applicable</p> <p>Commence sprays at 50-100% blossom followed by two further sprays 28 days apart. If high volume sprays exceed 1000L spray mixture / ha, do not apply more than 500ml Crop4Life per hectare. For varieties with a short growing period (like certain nectarines) do not apply more than 2 sprays from blossom to harvest. A postharvest spray is recommended as the 3rd spray.</p> <p>For non-bearing trees do not apply less than 300ml Crop4Life per ha per spray commencing 21 days after bud break followed by 3 further sprays with 28 day intervals.</p> <p>See compatibility foliar applied nutrients on fruit finish.</p>
<p>Grapes: (Wine and Table grapes)</p>	<p>50ml (300-500ml / ha)</p>	<p>Wine grapes:</p> <p>For improved set and berry size, commence sprays at 20-30cm shoot length. A minimum of 300ml / ha is recommended for this early spray. Apply a 2nd spray 28 days later (\pm cap fall) at 300ml / ha and a 3rd spray 28 days later (\pm pea berry size) at 400ml / ha (do not apply less than 1L / ha per season). The latter two sprays will result in enhanced colouring of the berries of red varieties. It is often found that the complete spray program resulted in higher titratable acid values.</p> <p>Table grapes:</p> <p>For improved set and berry size commence sprays at 20-30cm shoot length. A minimum of volume of 400ml / ha is recommended for this early spray. IF improved set is not needed postpone this pre blossom spray until blossom to cap fall at 400ml /ha.</p> <p>For improved berry size and colouring of red table grapes apply two further sprays at 28 day intervals</p>

		<p>applying 400ml and 500ml / ha for the 2nd and 3rd spray respectively.</p> <p>To enhance colouring of red table grapes apply Crop4Life at 500ml in combination with 300ml Ethylene / ha 7 day's post véraison. If no Crop4Life was applied prior to véraison, a 2nd post véraison spray at the same rates can be applied 4-7 days later.</p>												
<p>Seed Treatment (Wheat, barley, oats, lupines and canola)</p>	<p>50-100ml / 100kg seed Add a wetting agent if necessary</p>	<p>For improved germination, emergence and root development use the following Crop4Life concentrations per crop:</p> <table border="1"> <thead> <tr> <th>Crop</th> <th>Concentration Crop4Life</th> <th>Volume of water / 100 kg seed</th> </tr> </thead> <tbody> <tr> <td>Oats:</td> <td>50ml</td> <td>750ml</td> </tr> <tr> <td>Wheat, Barley,</td> <td>50-100ml*</td> <td>800-1000ml</td> </tr> <tr> <td>Lupines, Canola</td> <td>50-100ml*</td> <td>500- 600ml</td> </tr> </tbody> </table> <p>See Directions for use: Compatibility Seed treatments: Only FS formulations are recommended.</p> <p>Crop4Life will not have any adverse effect on germination when seed is stored up to 100 days.</p> <p>*Use 100ml for improved early root development and seed coat sterilization.</p>	Crop	Concentration Crop4Life	Volume of water / 100 kg seed	Oats:	50ml	750ml	Wheat, Barley,	50-100ml*	800-1000ml	Lupines, Canola	50-100ml*	500- 600ml
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<p>Seed Treatment followed by foliar sprays: (Wheat, barley, Oats, Lupines and Canola)</p>	<p>100ml / ha</p>	<p>For improved yield: Timing:</p> <p>Wheat, barley and Oats Apply 1st spray at 4-6 leaf and if dry periods are expected during the flag leaf to flowering stage, a 2nd spray is recommended.</p> <p>Lupines: Apply 1st foliar spray at the 7-8 leaf stage which coincides normally with the start of the reproductive initiation (primary flower spikes of the main stem). A 2nd spray can be applied 28 days later if plants are under stress (drought, high temperatures).</p> <p>Canola: Apply 1st spray at the rosette to start of stem extension (bolting) stage.</p>												

<p>Foliar sprays without seed treatment: Wheat, barley, oats, lupine, canola, Lucerne</p>	<p>100-150ml / ha</p>	<p>A 2nd spray can be applied 28 days later if plants are under stress (drought, high temperatures).</p> <p>Apply two foliar sprays at timings recommended for Seed Treatment followed by foliar sprays above.</p> <p>A second spray should always follow 28 days later irrespective weather conditions.</p> <p>Use the higher rate when adverse stress conditions such as very cold or high temperatures are expected.</p> <p>Always ensure proper coverage of foliage</p>
<p>Potatoes: Table & Seed potatoes</p>	<p>250ml / ha</p>	<p>For improved yield and tuber size distribution: Apply 1st spray two weeks after emergence followed by 2 further sprays with 21 to 28 day intervals.</p> <p>Always ensure good coverage of all foliar parts.</p>
<p>Onions, Garlic: Seedbed and Transplanted</p>	<p>Seedbed: 50ml / 100L soil drench</p> <p>Transplanted: 250ml / ha</p>	<p>For root development and reduction of transplant shock: Apply as a soil drench to seedbeds at the two leaf stage and again 14 days prior to transplanting.</p> <p>If seedbeds were not treated apply 1st spray within a week after transplanting but if seedbed was treated commence 1st spray at 21 days after transplanting and repeat 2 times at 28 day intervals.</p> <p>Always ensure proper coverage of all foliar parts. Add a wetting agent to improve spreading on waxy leaf surfaces.</p>
<p>Tomatoes, Peppers, Brinjal (Eggplant), Seedling trays & Transplanted</p>	<p>Seedling trays: 50ml / 100L drench solution</p> <p>After Transplanting: 150-500ml / ha</p>	<p>For root development and reduction of transplant shock: Seedling drench: Drench seedling trays at least twice during the seedling stage of which the last one should be 14 days prior to transplanting.</p> <p>To improve set and yield: If seedling trays were not drenched commence sprays within one week after transplanting but if drenched, apply 1st spray 14-21 days after transplanting. Apply 2-3 further sprays at 28 day intervals. As plants develop, adapt Crop4Life dosage / ha according to recommended high volume applications. When more than 1000L spray mixture is applied / ha do not apply more than 500ml Crop4Life / ha.</p> <p>Add a wetting agent as a wetter to improve spreading on waxy leaf surfaces</p>

<p>Cabbage, Cauliflower, Broccoli, Celery, Spinach, Lettuce</p>	<p>Seedling trays: 50ml / 100L drench solution</p> <p>After Transplanting: 250ml / ha</p>	<p>To improve root development and transplanting shock: Seedling drench: Drench seedling trays at least twice during the seedling stage of which the last one should be 14 days prior to transplanting. To improve head size and yield: If seedling trays were not drenched commence sprays within one week after transplanting but if drenched, apply 1st spray 14-21 days after transplanting. Apply 2 further sprays at 28 day intervals. Add a wetting agent for Improved spreading on waxy leaf surfaces.</p>
<p>Maize:</p> <p>Soybeans, Sunflowers, Groundnuts, Green beans and Dry beans</p>	<p>100ml/ha</p> <p>100ml/ha</p>	<p>For improved yield and biomass (silage): Apply 1st spray at 4-6 leaf stage followed by a 2nd one 28 to 35 days later (pre tasselling stage).</p> <p>Apply 1st application at 4-5 leaf stage and a 2nd one 28 days later at the pre flowering stage. Always ensure proper covering of all plant parts.</p>