DUAL FORCE IDHA CHELATES





DUAL FORCE ZINC

10% Zinc (Chelated with 100% biodegradable IDHA chelate)

New patented IDHA chelate technology which is the only environmentally-friendly, synthetically produced chelate on the market.

Dual Force Zn is a 100% biodegradable IDHA chelated product designed to supply plants with available zinc to improve enzymatic activity necessary for plant metabolism, photosynthesis and plant growth hormone production.

Benefits of Dual Force Zn

- Fast and efficient uptake of Zn through microgranular non-hygroscopic technology and superior solubility
- Promotes the synthesis of Auxin, an important plant growth hormone influencing the development of new root and shoot tips
- IDHA chelate is a state-of-the-art chelation technology which is 100% biodegradable and environmentally friendly for plants and humans
- Zinc is an important element required for the synthesis of proteins as it assists in regulating RNA production

The Importance of Zinc

Zinc is a critical element which is both an activator and component of many enzymes and also influences auxin development (plant growth hormone) which promotes strong crop growth.

Zinc is also important for carbohydrate and starch production. This provides energy to the plant which can be utilized during respiration.

Benefits of IDHA Chelate

IDHA (Iminodisuccinic acid) is a new patented biodegradable chelating agent which is highly soluble and improves nutrient uptake compared to other traditional chelating agents.

It is a fully biodegradable chelating agent making it the only environmentally-friendly synthetically produced chelate on the market and leaves zero residue.





Physical Properties - pH: @1% solution: 7.5±1.0, bulk density: 0.90±0.1g/cm3

Analysis W/W%: 10% Zn (100% IDHA Chelated) Iminodisuccinic acid

Application Guide

Сгор	Foliar	Fertigation	Comments
Broadacre: Wheat, Barley, Canola, Cotton, Maize, Rice, Sorghum, Triticale, Pasture	0.25 - 2 kg/ha diluted in 50-100L of water	2 - 5 kg/ha	Apply prior and post tillering and apply as required
Pulses: Field Peas, Broad Beans, Lentils	1 - 2 kg/ha diluted in 50-100L of water	2 - 5 kg/ha	Apply as required and apply in furrow at planting
Tree Crops - Deciduous: Almond, Stone fruit, Pome fruit, Pistachio, Walnut, Hazelnut	0.75 - 1.5kg/ha diluted in 500-1000L of water	3 - 5 kg/ha	Apply as required during the crop cycle
Tree Crops - Evergreen: Avocado, Citrus, Macadamia, Lychee, Mango, Olives	0.75 - 1.5kg/ha diluted in 500-1000L of water	3 - 5 kg/ha	Apply as required when deficiencies present
Fruiting Vegetables: Tomatoes, Capsicum, Cucurbits, Eggplant	0.75 - 2kg/ha diluted in 500-1000L of water	2 - 5 kg/ha	Apply foliar during the early vegetative stage
Leafy Vegetables: Lettuce, Broccoli, Cabbage, Cauliflower, Kale, Herbs	0.75 - 2kg/ha diluted in 500-1000L of water	2 - 5 kg/ha	Apply foliar during the early vegetative stage and apply as required
Root Vegetables: Potato, Sweet Potato, Carrot, Beetroot, Leek, Onion, Radish	0.75 - 2kg/ha diluted in 250-500L of water	1 - 2.5kg/ha	Apply as required when deficiencies present and apply as required
Vine and Berry Crops: Wine and Table Grapes, Blueberry	0.75 - 1.5kg/ha diluted in 500-1000L of water	3 - 5 kg/ha	Apply as required during the crop cycle, DO NOT exceed maximum rate







Disclaimer: Please be aware that fertilizer can burn and or damage crops and pasture. Visible nutrient deficiency symptoms, analytical results and nutrient removals are the most commonly used criteria to determine the appropriate application rate. There are a number of factors including (but not limited to) weather, soil conditions, application methods, irrigation and management practices which are beyond the control of Dual Chelate Fertilizer and cannot be foreseen. Therefore, Dual Chelate Fertilizer accepts no responsibility whatsoever for any damage, loss or other consequences following the use of this guide or product.



FERTIGATION

FOLIAR



162 New Guinea Rd Robinvale VIC 3549





DUAL FORCE MANGANESE

9% Manganese (Chelated with 100% biodegradable IDHA chelate)

New patented IDHA chelate technology which is the only environmentally-friendly, synthetically produced chelate on the market.

Dual Force Mn is a 100% biodegradable IDHA chelated product which plays crucial roles in plant photosynthesis, accelerating germination and improves the uptake and assimilation of other macro elements such as P and Ca.

Benefits of Dual Force Mn

- Fast and efficient uptake of Mn through microgranular non-hygroscopic technology and superior solubility
- Manganese is important in photosynthesis as the metal is a cofactor in the oxygen-evolving complex which converts water to oxygen
- IDHA chelate is a state-of-the-art chelation technology which is 100% biodegradable and environmentally friendly for plants and humans
- Manganese plays a role in reducing oxidative stress within the plant preventing damage to plant cells and dysfunction

The Importance of Manganese

Manganese plays multiple functions though the plants life cycle including photosynthesis, respiration, reducing oxidative stress, biotic stress relief and hormone signaling.

Mn has also been studied to be interchangeable with other cations such as Ca, Cu, Mg and Zn in enzymes making it a versatile and key element for proper enzyme function.

Benefits of IDHA Chelate

IDHA (Iminodisuccinic acid) is a new patented biodegradable chelating agent which is highly soluble and improves nutrient uptake compared to other traditional chelating agents.

It is a fully biodegradable chelating agent making it the only environmentally-friendly synthetically produced chelate on the market and leaves zero residue.





Physical Properties - pH: @1% solution: 5.0±1.0, bulk density: 0.80±0.1g/cm3

Analysis W/W%: 9% Mn (100% IDHA Chelated) Iminodisuccinic acid

Application Guide

Crop	Foliar	Fertigation	Comments
Broadacre: Wheat, Barley, Canola, Cotton, Maize, Rice, Sorghum, Triticale, Pasture	0.25 - 2 kg/ha diluted in 50-100L of water	2 - 5 kg/ha	Apply prior and post tillering and apply as required
Pulses: Field Peas, Broad Beans, Lentils	1 - 2 kg/ha diluted in 50-100L of water	2 - 5 kg/ha	Apply as required and apply in furrow at planting
Tree Crops - Deciduous: Almond, Stone fruit, Pome fruit, Pistachio, Walnut, Hazelnut	0.75 - 1.5kg/ha diluted in 500-1000L of water	3 - 5 kg/ha	Apply as required during the crop cycle
Tree Crops - Evergreen: Avocado, Citrus, Macadamia, Lychee, Mango, Olives	0.75 - 1.5kg/ha diluted in 500-1000L of water	3 - 5 kg/ha	Apply as required when deficiencies present
Fruiting Vegetables: Tomatoes, Capsicum, Cucurbits, Eggplant	0.75 - 2kg/ha diluted in 500-1000L of water	2 - 5 kg/ha	Apply foliar during the early vegetative stage
Leafy Vegetables: Lettuce, Broccoli, Cabbage, Cauliflower, Kale, Herbs	0.75 - 2kg/ha diluted in 500-1000L of water	2 - 5 kg/ha	Apply foliar during the early vegetative stage and apply as required
Root Vegetables: Potato, Sweet Potato, Carrot, Beetroot, Leek, Onion, Radish	0.75 - 2kg/ha diluted in 250-500L of water	1 - 2.5kg/ha	Apply as required when deficiencies present and apply as required
Vine and Berry Crops: Wine and Table Grapes, Blueberry	0.75 - 1.5kg/ha diluted in 500-1000L of water	3 - 5 kg/ha	Apply as required during the crop cycle, DO NOT exceed maximum rate







FERTIGATION



FOLIAR

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DUAL FORCE MAGNESIUM

7.5% Mg (Chelated with 100% biodegradable IDHA chelate)

New patented IDHA chelate technology which is the only environmentally-friendly, synthetically produced chelate on the market.

Dual Force Mg is a 100% biodegradable IDHA chelated product which increases photosynthesis and cell respiration through improved chlorophyll production.

Benefits of Dual Force Mg

- Fast and efficient uptake of Mg through microgranular non-hygroscopic technology and superior solubility
- Magnesium is the center element for the chlorophyll molecule and plays an integral role in the bio-synthesis of chlorophyll
- IDHA chelate is a state-of-the-art chelation technology which is 100% biodegradable and environmentally friendly for plants and humans
- Magnesium is important for specific enzyme functions and is a cofactor for many proteins involved in energy transfer such as ATPase.

The Importance of Magnesium

Magnesium is a multi-functional element mainly utilized in the production of chlorophyll and hence improves the photosynthetic capacity of plants.

Magnesium also increases the strength and integrity of both cell walls and cell membranes by binding macromolecules such as pectin together via crosslinks to create magnesium pectate.

Benefits of IDHA Chelate

IDHA (Iminodisuccinic acid) is a new patented biodegradable chelating agent which is highly soluble and improves nutrient uptake compared to other traditional chelating agents.

It is a fully biodegradable chelating agent making it the only environmentally-friendly synthetically produced chelate on the market and leaves zero residue.





Physical Properties - pH: @1% solution: 7.5±1.0, bulk density: 0.90±0.1g/cm3

Analysis W/W%: 7.5% Mg (100% IDHA Chelated) Iminodisuccinic acid

Application Guide

Crop	Foliar	Fertigation	Comments
Broadacre: Wheat, Barley, Canola, Cotton, Maize, Rice, Sorghum, Triticale, Pasture	2 5 kg/ha diluted in 100-200L of water	N/A	Apply at tillering as apply as required or when deficiencies are present
Pulses: Field Peas, Broad Beans, Lentils	2 5 kg/ha diluted in 100-200L of water	N/A	Apply as required when deficiencies present
Tree Crops - Deciduous: Almond, Stone fruit, Pome fruit, Pistachio, Walnut, Hazelnut	2 - 5 kg/ha diluted in 500-1000L of water	3 - 7 kg/ha	Apply as required during the crop cycle, especially during vegetative flush
Tree Crops - Evergreen: Avocado, Citrus, Macadamia, Lychee, Mango, Olives	2 - 5 kg/ha diluted in 500-1000L of water	3 - 7 kg/ha	Apply as required during the crop cycle, especially during vegetative flush
Fruiting Vegetables: Tomatoes, Capsicum, Cucurbits, Eggplant	2 - 5 kg/ha diluted in 500-1000L of water	3 - 7 kg/ha	Apply foliar during the early vegetative stage and apply as required
Leafy Vegetables: Lettuce, Broccoli, Cabbage, Cauliflower, Kale, Herbs	2 - 5 kg/ha diluted in 500-1000L of water	3 - 7 kg/ha	Apply foliar during the early vegetative stage and apply as required
Root Vegetables: Potato, Sweet Potato, Carrot, Beetroot, Leek, Onion, Radish	2 - 5 kg/ha diluted in 250-500L of water	3 - 7 kg/ha	Apply as required when deficiencies present and apply as required
Vine and Berry Crops: Wine and Table Grapes, Blueberry	2 - 5 kg/ha diluted in 250 -1000L of water	3 - 7 kg/ha	Apply at early shoot development and the beginning of flowering. DO NOT exceed maximum rate







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FERTIGATION





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DUAL FORCE COPPER

10% Copper (Chelated with 100% biodegradable IDHA chelate)

New patented IDHA chelate technology which is the only environmentally-friendly, synthetically produced chelate on the market.

Dual Force Cu is a 100% biodegradable IDHA chelated product designed for superior copper uptake to improve plant metabolism and functions for higher yields and healthier crops.

Benefits of Dual Force Cu

- Fast and efficient uptake of Cu through microgranular non-hygroscopic technology and superior solubility
- Aids in many crucial plant metabolism processes such as photosynthesis, respiration
- IDHA chelate is a state-of-the-art chelation technology which is 100% biodegradable and environmentally friendly for plants and humans
- Copper is important in pollen formation, viability and fertilization which influences pollination success and yields

The Importance of Copper

Copper is an important micro element necessary for proper plant growth and development. Cu activates many enzymes and reactions necessary for processes such as photosynthesis and protein and carbohydrate metabolism.

Copper also plays a significant role in reducing oxidative stress within the plant preventing damage to plant cells and dysfunction.

Benefits of IDHA Chelate

IDHA (Iminodisuccinic acid) is a new patented biodegradable chelating agent which is highly soluble and improves nutrient uptake compared to other traditional chelating agents.

It is a fully biodegradable chelating agent making it the only environmentally-friendly, synthetically produced chelate on the market and leaves zero residue.





Physical Properties - pH: @1% solution: 8.0±1.0, bulk density: 0.80±0.1 g/cm³

Analysis W/W%: 10% Cu (100% IDHA Chelated) Iminodisuccinic acid

Application Guide

Crop	Foliar	Fertigation	Comments
Broadacre: Wheat, Barley, Canola, Cotton, Maize, Rice, Sorghum, Triticale, Pasture	0.25 - 1 kg/ha diluted in 50-100L of water	1 - 3 kg/ha	Apply prior and post tillering and apply as required
Pulses: Field Peas, Broad Beans, Lentils	0.5 - 1.5kg/ha diluted in 50-100L of water	1 - 3 kg/ha	Apply as required and apply in furrow at planting
Tree Crops - Deciduous: Almond, Stone fruit, Pome fruit, Pistachio, Walnut, Hazelnut	0.5 - 1.5kg/ha diluted in 500-1000L of water	1.5 - 3 kg/ha	Avoid foliar application to stone fruit during active leaf growth
Tree Crops - Evergreen: Avocado, Citrus, Macadamia, Lychee, Mango, Olives	0.5 - 1.5kg/ha diluted in 500-1000L of water	1.5 - 3 kg/ha	Apply as required when deficiencies present
Fruiting Vegetables: Tomatoes, Capsicum, Cucurbits, Eggplant	0.5 - 1.5kg/ha diluted in 250-500L of water	1-2.5 kg/ha	Apply foliar during the early vegetative stage
Leafy Vegetables: Lettuce, Broccoli, Cabbage, Cauliflower, Kale, Herbs	0.5 - 1.5kg/ha diluted in 250-500L of water	1-2.5 kg/ha	Apply foliar during the early vegetative stage and apply as required
Root Vegetables: Potato, Sweet Potato, Carrot, Beetroot, Leek, Onion, Radish	0.25 - 1 kg/ha diluted in 250-500L of water	1-2.5kg/ha	Apply as required when deficiencies present and apply as required
Vine and Berry Crops: Wine and Table Grapes, Blueberry	0.75 - 1.5kg/ha diluted in 500-1000L of water	1 - 3 kg/ha	Foliar apply early before budburst, DO NOT exceed maximum rate







FOLIAR

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DUAL FORCE CALCIUM

10% Ca (Chelated with 100% biodegradable IDHA chelate)

New patented IDHA chelate technology which is the only environmentally-friendly, synthetically produced chelate on the market.

Dual Force Ca is a 100% biodegradable IDHA chelated product which highly beneficial for strong cell wall formation, improving cell structure, promoting cell division and increasing fruit set.

Benefits of Dual Force Ca

- Fast and efficient uptake of Ca through microgranular non-hygroscopic technology and superior solubility
- Calcium improves the structural integrity of cell walls through calcium pectate. This decreases potential cell wall damage by pests
- IDHA chelate is a state-of-the-art chelation technology which is 100% biodegradable and environmentally friendly for plants and humans
- Increases pollen germination and pollen tube growth by driving pollen tube growth and elongation which improves fruit set

The Importance of Calcium

Calcium assists in maintaining the structural integrity of plant cell walls which increases plant resilience towards mechanical, abiotic and biotic stress.

Calcium also plays a key role in fruit production by increasing fruit firmness, ensuring uniform fruit sizing and ripening and also assists in lengthening produce shelf life after harvesting.

Benefits of IDHA Chelate

IDHA (Iminodisuccinic acid) is a new patented biodegradable chelating agent which is highly soluble and improves nutrient uptake compared to other traditional chelating agents.

It is a fully biodegradable chelating agent making it the only environmentally-friendly synthetically produced chelate on the market and leaves zero residue.





Physical Properties - pH: @1% solution: 8.5±1.0, bulk density: 0.90±0.1g/cm³

Analysis W/W%: 10% Ca (100% IDHA Chelated) Iminodisuccinic acid

Application Guide

Crop	Foliar	Fertigation	Comments
Broadacre: Wheat, Barley, Canola, Cotton, Maize, Rice, Sorghum, Triticale, Pasture	2 - 5 kg/ha diluted in 100-200L of water	N/A	Apply as required when deficiencies present
Pulses: Field Peas, Broad Beans, Lentils	2 - 5 kg/ha diluted in 100-200L of water	N/A	Apply as required when deficiencies present
Tree Crops - Deciduous: Almond, Stone fruit, Pome fruit, Pistachio, Walnut, Hazelnut	3 - 5 kg/ha diluted in 500-1000L of water	3-7 kg/ha	Apply post blossoming to fruit maturity and at post-harvest
Tree Crops - Evergreen: Avocado, Citrus, Macadamia, Lychee, Mango, Olives	3 - 5 kg/ha diluted in 500-1000L of water	3-7 kg/ha	Apply recurrently from flowering to fruit fill
Fruiting Vegetables: Tomatoes, Capsicum, Cucurbits, Eggplant	3 - 5 kg/ha diluted in 500-1000L of water	3-7 kg/ha	Apply repeatedly from flowering to harvest
Leafy Vegetables: Lettuce, Broccoli, Cabbage, Cauliflower, Kale, Herbs	3 - 5 kg/ha diluted in 500-1000L of water	3 - 7 kg/ha	Apply foliar during the early vegetative stage and apply as required
Root Vegetables: Potato, Sweet Potato, Carrot, Beetroot, Leek, Onion, Radish	3 - 5 kg/ha diluted in 250-500L of water	3-7 kg/ha	Apply as required when deficiencies present and apply as required
Vine and Berry Crops: Wine and Table Grapes, Blueberry	2 - 5 kg/ha diluted in 250 -1000L of water	3-7 kg/ha	Apply as required during and post fruit set, DO NOT exceed maximum rate







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DUAL FORCE IRON

9% Fe (Chelated with 100% biodegradable IDHA chelate)

New patented IDHA chelate technology which is the only environmentally-friendly, synthetically produced chelate on the market.

Dual Force Fe is a 100% biodegradable IDHA chelated product which highly beneficial for chlorophyll formation, whilst also improving plant respiration through the activation of enzymes.

Benefits of Dual Force Fe

- Assists chlorophyll production by creating precursors and transporting elements necessary for chlorophyll biosynthesis
- Improves plant photosynthesis by aiding in the electron transfer reactions and is an activator for metabolic reactions
- IDHA chelate is a state-of-the-art chelation technology which is 100% biodegradable and environmentally friendly for plants and humans
- Dual Force Fe will greatly improve plant respiration capabilities which will increase energy production to maximize cell functions

The Importance of Iron

Chlorophyll production greatly depends on the availability of iron as it is a chlorophyll production cofactor. Dual Force Fe will improve the symptoms of interveinal chlorosis where there is a deficiency in iron.

Iron also plays roles in protein production, improving cell respiration and enzyme activation through premium chelating technology

Benefits of IDHA Chelate

IDHA (Iminodisuccinic acid) is a new patented biodegradable chelating agent which is highly soluble and improves nutrient uptake compared to other traditional chelating agents.

It is a fully biodegradable chelating agent making it the only environmentally-friendly synthetically produced chelate on the market and leaves zero residue.





Physical Properties - pH: @1% solution: 5.0±1.0, bulk density: 0.80±0.1g/cm3

Analysis W/W%: 9% Fe (100% IDHA Chelated) Iminodisuccinic acid

Application Guide

Crop	Foliar	Fertigation	Comments
Broadacre: Wheat, Barley, Canola, Cotton, Maize, Rice, Sorghum, Triticale, Pasture	1 - 3 kg/ha diluted in 50-100L of water	N/A	Apply as required when deficiencies present
Pulses: Field Peas, Broad Beans, Lentils	1 - 3 kg/ha diluted in 50-100L of water	N/A	Apply as required when deficiencies present
Tree Crops - Deciduous: Almond, Stone fruit, Pome fruit, Pistachio, Walnut, Hazelnut	1.5 - 4 kg/ha diluted in 500-1000L of water	5 - 15 kg/ha	Apply at the end of winter/early spring with subsequent applications when deficiencies appear
Tree Crops - Evergreen: Avocado, Citrus, Macadamia, Lychee, Mango, Olives	1.5 - 4 kg/ha diluted in 500-1000L of water	5 - 15 kg/ha	Apply at the end of winter/early spring with subsequent applications when deficiencies appear
Fruiting Vegetables: Tomatoes, Capsicum, Cucurbits, Eggplant	0.5 - 2 kg/ha diluted in 500-1000L of water	5 - 10 kg/ha	Apply at the beginning of plant growth and as required
Leafy Vegetables: Lettuce, Broccoli, Cabbage, Cauliflower, Kale, Herbs	0.5 - 2 kg/ha diluted in 500-1000L of water	5 - 10 kg/ha	Apply at the beginning of plant growth and as required
Root Vegetables: Potato, Sweet Potato, Carrot, Beetroot, Leek, Onion, Radish	1 - 3 kg/ha diluted in 500-1000 L of water	10 - 20 kg/ha	Apply as required when deficiencies present
Vine and Berry Crops: Wine and Table Grapes, Blueberry	1 - 2.5 kg/ha diluted in 500 -1000L of water	10 - 20 kg/ha	Apply at the end of winter/early spring with subsequent application prior and post flowering, DO NOT Maximum rate







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Dual Chelate Fertilizer Pty Ltd is a speciality fertilizer manufacturing company, specialising in advanced plant nutrition and using patented technology. We work with leading universities and scientists worldwide (including Australia, USA and Asia) to understand the most efficient technologies to transport nutrients into plants and in translocation of different nutrients within plants where nutrient corrections are required. As a result of our extensive research and development work, we have been able to combine several advanced nutrient technologies together to introduce highly efficient Dual Chelation Technology. With this technology, organically derived fertilizer products are generally used – towards a healthier & sustainable future.

We are strategically located in south-eastern Australia, in the Sunraysia region where Victoria, New South Wales and South Australia meet. This tri-state region is one of the major intensive horticulture production areas of Australia, where the majority of Australia's almonds, table grapes, wine grapes, dried grapes and citrus are grown.

® KEY FOCUS

We are committed to improving the prosperity of our farming community and the region where we are based. Our reputation as a provider of technical agronomic consultancy services has been developed and maintained through: collaborative Research and Development with world class research organisations, innovation, exceptional client focus, dedicated team work, and the agility and flexibility to meet the unique needs of our clients.

We are dedicated to serving our customer's needs in every aspect to achieve individual objectives.

MISSION

To be the most respected and attractive supplier in the plant nutrient industry, creating value for all our stakeholders. We always focus on the best interest of the end-users. We are innovative and strive to advance our technical expertise to increase efficiency, environmentally friendly and cost-effective crop production.

© VISION

To be the preferred supplier of advanced plant nutrients for efficient production of commercial crops in the Region.





Dual Chelate Fertilizer is an ISO 9001:2015 Certified Company

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CONTACT US TODAY TO DISCUSS YOUR REQUIREMENTS

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