

# INTRO *calmag*



Reg. No.: B5741  
(Act 36 of 1947)  
Fertilizer Group 2

**Intro Calmag** is an Amino Acid chelated Calcium and Magnesium containing liquid fertilizer, specifically designed for use as a foliar feed to prevent and correct Calcium and Magnesium deficiencies.

## Active Ingredients:

|             |      |         |          |
|-------------|------|---------|----------|
| * Calcium   | (Ca) | 50 g/l  | 41 g/kg  |
| * Magnesium | (Mg) | 20 g/l  | 16 g/kg  |
| Nitrogen    | (N)  | 27 g/l  | 22 g/kg  |
| Amino Acids |      | 148 g/l | 118 g/kg |

\* Amino Acid and Carbohydrate Chelated  
SG (@ 20 °C) = 1.23 ± 0.02



### Registered, Manufactured & Distributed by:

INTROLAB (PTY) LTD  
(Reg. No. 2005/039779/07)

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**Introlab**  
outperform the norm

Version: April 2021

[www.introlab.co.za](http://www.introlab.co.za)

See enclosed for full details. ➡

See container side for both Batch No. and Manufacture Date. Product expires 2 years after date of manufacture.

## Product Description:

- **Intro Calmag** is an amino acid complexed Calcium and Magnesium containing liquid fertilizer.
- The amino acid complexed nutrients will enhance absorption by plants.
- **Intro Calmag** is suitable for foliar application.
- **Intro Calmag** is readily taken up by plants.

## Compatibility:

- **Intro Calmag** is compatible with most agricultural remedies.
- It is however advisable to do a miscibility test prior to mixing **Intro Calmag** with other agricultural products.

**Intro Calmag** could lower the spray water pH.

The use of a pH buffer such as, AquaTech is recommended when tank mixing **Intro Calmag** with other Agrochemicals that are susceptible to low pH conditions.

### Do not apply **Intro Calmag**:

- In a tank mix with Copper containing fungicides.
- Onto plants with Copper fungicide containing residues.
- Within 30 days after Copper containing fungicide applications.
- In a tank mix with products that contain high levels of phosphate or phosphonate.

Contact the Manufacturer or Crop advisor before tank mixing **Intro Calmag** with other Agrochemicals.

## Mixing Instructions:

- Shake the container thoroughly before use.
- Follow the standard tank mixing procedure if this product is applied in combination with other agricultural products.
- Ensure good agitation throughout application.

## Storage:

- Store in the original, well-sealed container away from direct sunlight in a cool dry environment.
- Keep away from children, uninformed people, animals and foodstuffs.

## Application Instructions:

- **Intro Calmag** should preferably be applied in the early morning or late afternoon.
- Do not apply to plants that are undergoing moisture or heat stress.
- Ensure good even coverage of the plants.
- For optimum results **Intro Calmag** should be used in a balanced plant nutrition programme.
- Consult your chemical distributor, consultant or the registration holder should crop specific programmes be required, or if any additional information and guidance is required concerning the use of this product.

## Warning:

- Handle with care.
- Do not re-use the container for any other purpose.

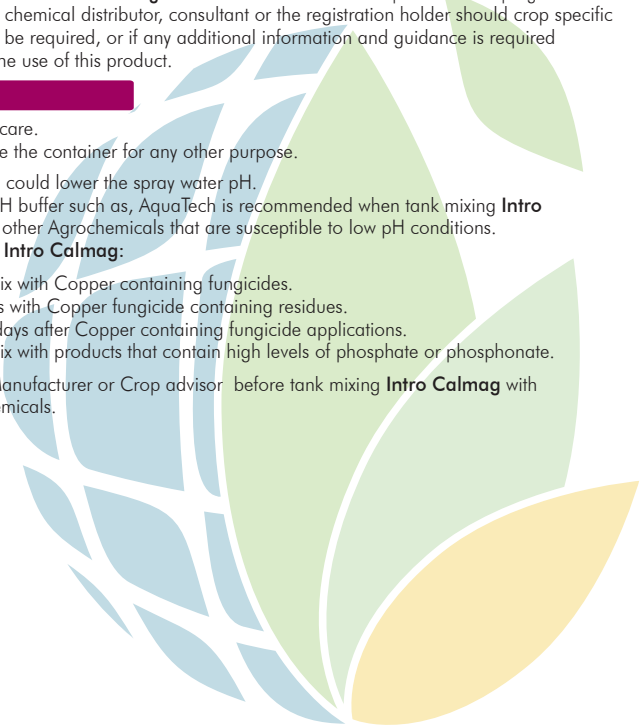
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## Directions for use: (Use only as directed)

Use the lower rates as maintenance and the higher rate to correct deficiencies:

| Crop   | Rate/ha                           | Remarks  |
|--|-----------------------------------|--|
| <b>Berries:</b>  |                                   |  |
| i. Blueberries,<br>Blackberries,<br>Raspberries                          | 2 - 7 ℓ<br>2 - 7 ℓ                | i. Commence at flowering<br>ii. Every second week until the end of harvest.<br>Apply in 200 ℓ water/ha.                |
| ii. Strawberries   | 2 - 7 ℓ<br>2 - 7 ℓ                | i. Two weeks after transplant<br>ii. Every second week until the end of harvest.<br>Apply in 200 ℓ water/ha.           |
| <b>Bulb, Tuber &amp; Root Crops:</b>                                     |                                   |  |
| i. Onions, Garlic  | 2 - 3 ℓ<br>2 - 3 ℓ<br>2 - 3 ℓ     | i. At onset of bulbing<br>ii. 14 days later<br>iii. 28 days later<br>Apply in 400 ℓ water/ha                           |
| ii. Potatoes,<br>Sweet Potatoes  | 4 - 5 ℓ<br>4 - 5 ℓ<br>4 - 5 ℓ     | i. 4 Weeks post emergence.<br>ii. 6 Weeks post emergence<br>iii. 8 Weeks post emergence<br>Apply in 400 liter water/ha |
| iii. Beetroot, Carrots   | 3 - 4 ℓ<br><br>3 - 4 ℓ<br>3 - 4 ℓ | i. 2-3 Weeks post emergence<br>ii. 14 days later<br>iii. 14 days later<br>Apply in 200-300 ℓ water/ha                  |
| <b>Cruciferae:</b>   |                                   |  |
| Broccoli, Cabbage,<br>Brussel Sprouts,<br>Cauliflower                    | 3 - 4 ℓ<br>3 - 4 ℓ<br>3 - 4 ℓ     | i. 2-3 Weeks post-transplant<br>ii. 14 days later<br>iii. 14 days later<br>Apply in 200-300 ℓ water/ha                 |
| <b>Cucurbits:</b>  |                                   |  |
| Cucumbers, Marrows,<br>Melons, Pumpkins,<br>Baby marrows,<br>Watermelons | 2 - 4 ℓ<br>2 - 4 ℓ<br>2 - 4 ℓ     | i. Directly after fruit set<br>ii. 10 days later<br>iii. 10 days later<br>Apply in 200 ℓ water/ha.                     |
| <b>Grain Crops:</b>  |                                   |  |
| i. Maize, Sorghum  | 3 - 4 ℓ                           | i. Apply at tasseling stage via overhead irrigation or tractor application in 200 ℓ water/ha.                          |
| ii. Barley, Oats, Wheat  | 2 - 3 ℓ                           | i. Apply at tillering<br>ii. 14 days later<br>Apply in 200 ℓ of water/ha.  |

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|--|----------------------------------|---|
| <b>Grapes:</b><br>Table and Wine Grapes                      | 4 – 6 ℓ<br>4 – 6 ℓ               | i. Apply at petal fall<br>ii. Pea berry size<br>Apply in 500 -750 ℓ of water/ha.  |
| <b>Leafy Vegetables:</b><br>Lettuce, Spinach                 | 2 – 3 ℓ                          | i. Apply 3 weeks post emergence, repeat application every 14 days until one month before harvest.<br>Apply in 200 ℓ of water/ha.          |
| <b>Legumes:</b><br>Dry Beans, Peas,<br>Other Beans           | 3 – 5 ℓ<br>3 – 5 ℓ               | i. Start application on onset of flowering<br>ii. 14 days later<br>Apply in 200 ℓ of water/ha.  |
| <b>Mediterranean Fruit:</b><br>Figs, Olives,<br>Pomegranates | 5 – 10 ℓ<br>5 – 10 ℓ             | i. Apply at petal fall<br>ii. 14 days later<br>Apply in 750 – 1500 ℓ water/ha.  |
| <b>Nuts:</b><br>i. Almonds                                   | 5 – 10 ℓ<br>5 – 10 ℓ<br>5 – 10 ℓ | i. 75% Petal fall<br>ii. Two weeks later<br>iii. Two weeks later<br>Apply in 1000 – 2000 ℓ water/ha.                                      |
| ii. Macadamia  | 5 – 10 ℓ<br>5 – 10 ℓ             | i. August at full bloom<br>ii. 30 Days later<br>Apply in 1500 -3000 ℓ water/ha.   |
| iii. Pecan, Wall Nuts  | 5 – 10 ℓ<br>5 – 10 ℓ             | i. Weeks post parachute stage (Middle October)<br>ii. Middle December<br>Apply in 1000 – 2000 ℓ water/ha.                                 |
| <b>Oil Seed Crops:</b><br>i. Groundnuts                      | 3 – 5 ℓ<br>3 – 5 ℓ               | i. Start application at flowering<br>ii. Repeat 14 days later<br>Apply in 200 ℓ of water/ha.  |
| ii. Soy Beans  | 3 – 5 ℓ<br>3 – 5 ℓ               | i. Start application on onset of flowering<br>ii. 14 days later<br>Apply in 200 ℓ of water/ha.  |
| iii. Sunflower   | 3 – 5 ℓ<br>3 – 5 ℓ               | i. Apply just before flowering in 200 ℓ water/ha.   |
| <b>Pineapples</b>  | 3 – 5 ℓ<br>3 – 5 ℓ<br>3 – 5 ℓ    | i. Apply at blue flower stage (Middle February)<br>ii. Dead Flower Stage (Early March)<br>iii. 2 weeks later.<br>Apply in 500 ℓ water/ha. |

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| Crop   | Rate/ha                          | Remarks   |
|--|----------------------------------|---|
| <b>Pome fruit:</b><br>Apples, Pears, Quinces                         | 5 – 10 ℓ<br>5 – 10 ℓ             | i. Apply from petal fall<br>ii. Repeat application every 10-14 days until one month before harvest<br>Apply in 1000 – 3000 ℓ water according to Tree Row Volume |
| <b>Solanaceous Crops:</b><br>i. Chillies, Paprika, Peppers, Tomatoes | 3 – 5 ℓ<br>3 – 5 ℓ               | i. Apply at the end of flowering on first truss<br>ii. Repeat application every 7-10 days until one month before harvest. Apply in 400 ℓ water/ha.              |
| ii. Tobacco  | 3 – 5 ℓ                          | i. Apply as a full cover spray 3 weeks after transplant in 500 ℓ water/ha.  |
| <b>Stone Fruit:</b><br>Apricots, Nectarines, Peaches, Plums          | 5 – 10 ℓ<br>5 – 10 ℓ             | i. Apply from petal fall<br>ii. Repeat application every 10-14 days until one month before harvest<br>Apply in 1000 – 3000 ℓ water according to Tree Row Volume |
| <b>Subtropical Fruit:</b><br>i. Avocados                             | 5 – 10 ℓ<br>5 – 10 ℓ<br>5 – 10 ℓ | i. Cauliflower stage<br>ii. Full bloom<br>iii. Fruit set<br>Direct sprays at the flower trusses.<br>Apply in 3000 – 5000 ℓ water/ha.                            |
| ii. Guavas   | 3 – 6 ℓ<br>3 – 6 ℓ               | i. Apply at fruit set.<br>ii. Repeat application every 14 days until one month before harvest.<br>Apply in 1500 – 3000 ℓ water/ha.                              |
| iii. Lychees, Mangoes  | 10 – 15 ℓ<br>10 – 15 ℓ           | i. Apply at fruit set<br>ii. Repeat application 14 days later<br>Direct sprays at the flower trusses. Apply in 2000ℓ water/ha.                                  |
| iv. Citrus   | 10 – 15 ℓ<br>10 – 15 ℓ           | i. Apply at 50 -100% petal fall (September)<br>ii. 2-4 weeks post 100% petal fall<br>Apply according to Tree Row Volume<br>Or 1000 – 4000 ℓ water/ha.           |
| <b>Other Crops</b>   | 3 – 5 ℓ                          | i. Start application from early fruit development stage and repeat applications if necessary at 10-14 day intervals.<br>Apply in a minimum of 500 ℓ water/ha.   |

### Warranty:

Although this product has been extensively tested under 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 climatic conditions as well as method, time and accuracy of application