

# WUXAL® Calcium

BY AGLUKON

**Safe and highly effective calcium supply plus foliar nutrition to fruit and vegetables**

## Description

**Wuxal Calcium** is a formulation with a very high calcium content. It is used for crop-specific foliar nutrition to prevent or eliminate general calcium deficiencies or physiologically implied calcium deficiencies of fruit and vegetables.

In addition to the high calcium content, **Wuxal Calcium** contains nitrogen, magnesium and all the micronutrients required to achieve optimal plant growth, increased yield and improved quality.

## Key benefits of WUXAL Calcium

- especially developed for foliar nutrition
- calcium supply plus foliar nutrition with nitrogen, magnesium and a high micronutrient content
- significantly higher calcium efficiency than traditional single calcium salt sprays
- high crop safety
- has none of the disadvantages of common calcium sprays such as phytotoxicity at certain stages of growth, temperatures, or unsatisfactory compatibility with pesticides
- bio-effective additives for weather-independent uptake of calcium and all other nutrients
- fully chelated cationic micronutrients for excellent absorption and translocation in the plants
- can be applied with all usual HV and LV (LV: up to 5 % of concentration) spraying and sprinkling equipment
- compatible with most commonly used pesticides

## Contents

Calcium fertilizer suspension with nitrogen, magnesium 10-(15 CaO)-2 MgO and micronutrients. For foliar fertilization.

|              | % w/w                     | g/l   |
|--------------|---------------------------|-------|
| <b>10</b>    | <b>% N</b> Total nitrogen | 160   |
|              | 8.5 % N nitrate           | 136   |
|              | 1.3 % N carbamide         | 21    |
|              | 0.2 % N ammoniacal        | 3     |
| <b>15</b>    | <b>% CaO</b> Calcium      | 240   |
| <b>10.7</b>  | <b>% Ca</b> Calcium       | 171.5 |
| <b>2</b>     | <b>% MgO</b> Magnesium    | 32    |
| <b>1.2</b>   | <b>% Mg</b> Magnesium     | 19.3  |
| <b>0.05</b>  | <b>% B</b> Boron          | 0.80  |
| <b>0.04</b>  | <b>% Cu</b> Copper        | 0.64  |
| <b>0.05</b>  | <b>% Fe</b> Iron          | 0.80  |
| <b>0.1</b>   | <b>% Mn</b> Manganese     | 1.60  |
| <b>0.001</b> | <b>% Mo</b> Molybdenum    | 0.016 |
| <b>0.02</b>  | <b>% Zn</b> Zinc          | 0.320 |

The cationic micronutrients (iron, copper, manganese and zinc) are fully chelated (EDTA).

## Physicochemical properties

Density: 1.6 g/cm<sup>3</sup>  
 pH-value: approx. 6.5  
 Colour: olive green

## Precautions and Liability

When storing the product, temperatures below +5°C (41°F) and above +40°C (104°F) as well as frequent temperature fluctuations should be avoided. Considerable changes in temperature and/or too low temperatures can cause crystallization. The crystals will however easily dissolve again in the spray solution. Prolonged storage may also cause colour change and a reversible phase separation.

Neither crystallization nor colour change will in any way affect the product quality as regards the desired physiological effect.

When mixing with pesticides for the first time, test on a small scale before general use.



**The highly concentrated Calcium suspension with Magnesium and micronutrients**

**Improves shelf life of fruit and vegetables**

## Packaging

10 l bucket, 100 l drum, 600 l bulk tank

## Fields of application and rates of use

| Crop  | No. and Timing of Applications  | Rate of use   |
|---|---|---|
| <b>(Pome Fruit)<br/>Apples</b>  | Regularly at 10 - 14 day intervals from petal fall / early fruitlet stage until shortly before harvest. 7 - 10 applications are recommended, with a minimum of 6 applications being considered as necessary. <b>Avoid spraying during high temperatures.</b> Frequency of application and nutrient concentration may be increased depending on the nutrient requirement and the risk of bitter pit, provided local conditions are taken into account. | <ul style="list-style-type: none"> <li>• generally: 3 - 6 l/ha in 500 - 1000 litres of water per hectare</li> <li>• varieties with low susceptibility to bitter pit: 3 - 4 l/ha</li> <li>• varieties susceptible to bitter pit: 6 l/ha</li> </ul> |
| <b>Strawberries</b>   | in conjunction with the last 2 - 3 fungicide sprays   | • 6 litres/ha   |
| <b>Tomatoes<br/>Peppers<br/>(Capsicums)</b>   | repeated applications at 7 - 10 day intervals starting approx. 10 days after fruit set  | <ul style="list-style-type: none"> <li>• Field crops: 3-6 l/ha</li> <li>• Protected cultivation: 0.1 - 0.5 %</li> </ul>   |
| <b>Cucumbers<br/>Melons</b>   | Start applications early after fruit set and repeat at fortnightly intervals until approx. 1 week before harvest  | 0.3 - 0.5 % (3 - 5 l/ha)  |
| <b>Brussels Sprouts<br/>Cauliflower<br/>Celery<br/>Chicory<br/>Chinese Cabbage<br/>Endive</b> | Apply at weekly intervals. <ul style="list-style-type: none"> <li>• Head Lettuce, Chinese Cabbage, Cauliflower: start shortly before head formation</li> <li>• Endive: start approx. 10 - 14 days after planting</li> <li>• Celery: start approx. 5 - 7 weeks before harvest properly wetting the heart of the plant</li> </ul>   | • 0.3 - 0.5 (3 - 5 l/ha)%   |
| <b>Sweet Cherry</b>   | 3 - 4 pre-harvest applications at 2-week-intervals starting approx. 6 - 8 weeks before harvest  | • 5 - 6 l/ha in 1500 l spray solution/ha  |
| <b>Viticulture</b>  | <ul style="list-style-type: none"> <li>• periodically add to tank mix when pesticide spraying, starting after blossom.</li> <li>• from the beginning of berry softening onwards repeated at 14-day intervals</li> </ul>   | <ul style="list-style-type: none"> <li>• 5 l/ha</li> <li>• 10 l/ha</li> </ul>   |
| <b>Peaches and<br/>Nectarines</b>   | 4 - 6 applications: <ul style="list-style-type: none"> <li>• 1. application from fruit set</li> <li>• 2. application 2 weeks later</li> <li>• 3. - 6. application when fruits have reached walnut size at 14-day-intervals</li> </ul>   | • 4 l/ha  |
| <b>Kiwifruit</b>  | <ul style="list-style-type: none"> <li>• 1 - 2 applications at fruit set/early cell division stage</li> <li>• 3 - 4 applications at 14 - 20 day intervals during the period of fruit enlargement</li> </ul>   | <ul style="list-style-type: none"> <li>• 3 l/ha</li> <li>• 5 l/ha</li> </ul>  |
| <b>Turf Greens</b>  | <ul style="list-style-type: none"> <li>• Apply as required. Repeat treatments at 14 day intervals.</li> <li>Do not irrigate within 4 hours of application</li> </ul>  | • 3 - 5 l/ha in 300 l spray solution/ha   |