

# ZMC PRO NuTech



Reg. No. B4410, Act No. 36 of 1947

Reg. No. N-AR 2027 Act No. 36 of 1947

## FERTILIZER GROUP 2

**READ LABEL BEFORE USE**  
**KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

ZMC PRO NuTech is an organic micro element fertilizer for use as a foliar feed to maintain or correct zinc, copper, manganese, and boron levels in plants.



## DANGER

Zinc*	(Zn)	58 g/kg	80 g/ℓ
Copper*	(Cu)	12 g/kg	17 g/ℓ
Manganese*	(Mn)	27 g/kg	37 g/ℓ
Boron*	(B)	3 g/kg	4 g/ℓ
Sulphur	(S)	50 g/kg	69 g/ℓ
Amino acids		154 g/kg	213 g/ℓ
Nitrogen derived from amino acids		29 g/kg	40 g/ℓ

UN Number: **3082**

### Emergency contact details

Office Hour Poisoning Helpline  
Rolfes Agri (Pty) Ltd.  
Tel: +27 (12) 803 0145

Registered, Manufactured and Distributed by: Rolfes Agri (Pty) Ltd.  
(Reg. No. 1998/013411/07) • 288 Mundt Street, Waitloto, 0184  
Gauteng, RSA. • Tel: (012) 803-0145

### HAZARD STATEMENTS:

Harmful if swallowed.  
Causes serious eye damage.  
May damage fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long-lasting effects.

### PRECAUTIONARY STATEMENTS:

Obtain, read, and follow all safety instructions before use.  
Avoid release to the environment.

Cytokinin	2.4 mg/kg	3.3 mg/ℓ
Auxin	3.6 mg/kg	5.0 mg/ℓ

*\*Di-amino acid chelated*

**SG:** 1.38 +/- 0.02

**Rolfes**   
**Agri**

### Spill Response and Transport incidents

Spill Tech, Oil and chemical pollution control  
Tel: +27 (86) 100 0366 / +27 (83) 253 6618  
[www.spilltech.co.za](http://www.spilltech.co.za)

Shake well before use • Store at room temperature  
Keep out of direct sunlight • Keep container closed when not in use



**PRECAUTIONS:**

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read carefully and follow all instructions.
- Obtain, read, and follow all safety instructions before use.
- Do not breathe dust/fumes/gas/mist/vapours/spray.
- Wash hands and affected areas thoroughly after handling. Do not touch eyes.
- Do not eat, drink, or smoke when using this product.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/ eye protection/ face protection/hearing protection.
- IF SWALLOWED: Get medical help.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
- IF exposed or concerned, get medical advice.
- Get medical help if you feel unwell.
- Rinse mouth.
- Collect spillage.
- Store locked up.
- Empty all contents from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds. Puncture the rinsed container to render it useless and send to a recycler.

**RELEVANT HAZARDOUS SUBSTANCES:**

Acetic acid < 10%, ZnSO<sub>4</sub>.7H<sub>2</sub>O (22.74% Zn) (11.15 % S) < 50%,  
 CuSO<sub>4</sub>.5H<sub>2</sub>O (25.45 % Cu) (11.15% S) < 10%, MnSO<sub>4</sub>.H<sub>2</sub>O (32.5 % Mn) (18.97% S) < 10% and  
 Boric acid (17.48 % B) < 10%.

**DIRECTIONS FOR USE: USE ONLY AS DIRECTED/****FIRST AID TREATMENTS:**

- **General Advice:** The symptoms resulting from direct exposure to the product could appear a while after exposure. If there is persistent discomfort, seek medical attention.
- **Eye contact:** Flush eyes immediately with flowing cold water for 15 - 20 minutes, until no evidence of chemical remains. If irritation persists, get medical help.
- **Skin contact:** Remove all contaminated clothing and shoes. Gently wipe off residual chemical and wash skin thoroughly with non-abrasive soap.
- **Inhalation:** Remove the affected victim from exposure to an area with fresh air. If breathing has stopped, administer artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If irritation persists, get medical help.
- **Ingestion:** If exposed or concerned, seek medical attention for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with large amount water.

**Do NOT apply ZMC PRO NuTech:**

- in combination with copper containing fungicides, phosphates or phosphonates.
- within 30 days after application of any copper fungicides.
- in combination with highly alkaline material such as lime sulphur, MCPA or highly alkaline boron products.

**ZMC PRO NuTech** should preferably be applied in the early morning or late afternoon. Do not apply on wet fruit. Application can only take place once the fruit is dry. Do not apply to plants that are undergoing a period of moisture or heat stress, or during cool wet conditions.

For optimum results, **ZMC PRO NuTech** should be used in a program and in combination with other balanced fertilizers and foliar feeds. Contact your chemical distributor or an Rolfe's Agri (Pty) Ltd representative should crop specific programs be required, or if any other guidance is required concerning the use of this product.

CROP	RATE PER HECTARE	REMARKS
Apples, Pears	3 – 6 ℓ	Apply 2 to 3 applications, one early in the season and again after harvest in a minimum of 1000 to 3000 ℓ water per hectare.
Avocados	3 – 6 ℓ	Start first application on flowers in the spring and on all new growth in the summer. Repeat 2 to 3 times if necessary. Use the lower dosage with water volumes up to 2000 ℓ/ha, and the higher dosage with water volumes higher than 2000 ℓ/ha. Do not exceed the maximum dosage.
Beans, Groundnuts, Peas, Soybeans	1 – 3 ℓ	Apply at flowering. Repeat twice at 7 to 10 day intervals if necessary.
Carrots, Ornamentals, Lawns	1 – 3 ℓ	Apply as a full cover spray and repeat every 14 days as required.
Cruciferae, Lettuce, Beetroot, Celery	1 – 3 ℓ	Start application 4 weeks after transplant and repeat 2 to 3 times if necessary.
Citrus	4 – 8 ℓ	Apply as a full cover spray in spring to all new growth and repeat 2 to 3 times. Do not spray directly before or during harvest. Use the lower dosage with water volumes up to 2000 ℓ/ha, and the higher dosage with water volumes higher than 2000 ℓ/ha. Do not exceed the maximum dosage.
Cotton	1 – 3 ℓ	Apply early in the season at plant height of 30 cm, and repeat 2 to 3 times.
Cucurbits (Pumpkins etc.)	1 – 3 ℓ	Start application early in spring, and repeat every 7 to 10 days if necessary.
Grapes	1 – 3 ℓ	Apply so as to address plant nutrient requirements (Zn, Cu, Mn) and to correct deficiencies thereof.
Macadamia, Pecans and other Nuts	2 – 6 ℓ	Do first application in the spring and then on all new growth later in the season or when deficiencies occur. Two to three applications are recommended. Use the lower dosage with water volumes up to 2000 ℓ/ha, and the higher dosage with water volumes higher than 2000 ℓ/ha. Do not exceed the maximum dosage.
Maize and Sweet Corn	1 – 3 ℓ	Do first application early in the season at the first signs of a deficiency and repeat the application if required.

CROP	RATE PER HECTARE	REMARKS
Mangoes	2 – 6 ℓ	Start application shortly before flowering. Apply 2 to 3 sprays at 10 day intervals. Use the lower dosage with water volumes up to 2000 ℓ/ha, and the higher dosage with water volumes higher than 2000 ℓ/ha. Do not exceed the maximum dosage.
Olives	3 – 5 ℓ	Apply early in the growing season and repeat 3 to 4 weeks later on new growth. Apply in 500 ℓ water per hectare.
Onions	1 – 3 ℓ	Apply early in the growing season. Repeat two weeks later if required.
Pomegranates, Figs	3 – 5 ℓ	Apply early in the growing season and repeat 3 to 4 weeks later on new growth. Apply in 500 ℓ water per hectare.
Potatoes, Tomatoes, Peppers, Chillies	1 – 3 ℓ	Apply at the first signs of a deficiency and repeat 3 to 4 weeks later if necessary.
Stone Fruit	3 – 5 ℓ	Apply very early in the season before blossom and then again after harvest. Use the lower dosage with water volumes up to 1000 ℓ/ha, and the higher dosage with water volumes higher than 1000 ℓ/ha. Do not exceed the maximum dosage.
Tea	2 – 4 ℓ	Three to four applications depending on the severity of the deficiency on new spring growth.
Wheat, Barley, Oats	2 – 4 ℓ	Apply early in the season at the first signs of a deficiency and repeat the application if required.

Use lower rates as a maintenance spray and higher rates to correct deficiencies.