

Agri-Paste

Mn



Reg. No. B5854 Act No. 36 of 1947

FERTILIZER GROUP 2

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

Agri-Paste Mn is a highly concentrated manganese containing fertilizer, dispersible in water, for use as a foliar fertilizer to maintain or correct manganese deficiencies in plants.



DANGER

Manganese (Mn) 511 g/ℓ

SG: 1.89 @20 °C

HAZARD STATEMENTS:

May cause an allergic skin reaction.
Causes serious eye damage.
Harmful to aquatic life.

PRECAUTIONARY STATEMENTS:

Wear eye protection/face protect/protective gloves.
Avoid release to the environment.

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

Emergency contact details

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

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

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.
- Avoid breathing dust/fumes/gas/mist/vapours/spray.
- Wash hands and affected area thoroughly after handling. Do **NOT** touch eyes.
- Contaminated work clothing should **NOT** be allowed out of the workplace.
- Avoid release to the environment.
- Wear eye protection/face protection/protective gloves.
- IF ON SKIN: Wash with plenty of water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Get medical help.
- Specific treatment (see first aid on this label).
- If skin irritation or a rash occurs: Get medical help.
- Take off contaminated clothing and wash it before reuse.
- 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 HAZAROUS SUBSTANCES:

Acrylic Polymer Sodium Salt < 10 %, Polyalkyl Napthalene Sulphonate < 10 %, and Benzisothiazolinone < 10 %.

FIRST AID TREATMENT:

- **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 large amounts of flowing cold water for at least 15 - 20 minutes, until no evidence of chemical remains. If irritation persists, get medical help immediately.
- **Skin contact:** Remove all contaminated clothing and shoes. Gently wipe off residual chemical and wash skin thoroughly with non-abrasive soap. If irritation persists, get medical help.

APPLICATION RATES

CROP	Maximum Application Rate per Hectare	ApplicaRate per 100l Water	RECOMMENDATIONS
GRAPES Table and Wine Grapes	8 ℓ	80 – 170 ℓ	Apply from 10 cm shoot length. Repeat every 7– 14 days until flowering. Apply in 500 – 1000 ℓ / ha water. Use lower rate in high volume of water and high rate in lower volume of water.
LEGUMES Dry beans, Peas Groundnuts	1.6 ℓ 1.6 ℓ	80 – 200 mℓ 80 – 200 mℓ	Apply at 4 – 6 leaf stage to correct deficiencies or improve yield. For Marsh Spot repeat application at the start and end of flowering. Apply in 200 ℓ / ha water. Apply at 4 – 6 leaf stage. Repeat 10 – 14 days later if necessary. Apply in 30 – 200 ℓ / ha water.
POME FRUIT Apples, Pears	8 ℓ	80 – 170 mℓ	Apply directly after 100% petal fall. On varieties sensitive to russeting, delay applications until 6 weeks after flowering. Apply in sufficient water to provide good cover but avoid run-off 1000 - 2000 ℓ / ha (based on tree row volumes).

- **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, rinse mouth thoroughly with large amounts of water and get medical advice.

DIRECTIONS FOR USE:

- Use only as directed.
- **AGRI-PASTE Mn** is highly concentrated, so it needs to be “dispersed” before being added to the spray tank. For example, add 5 ℓ to 10 ℓ of clean water and stir until dissolved and then add to the spray tank.
- Do **NOT** apply to plants that are undergoing a period of moisture or heat stress.
- Avoid applications under adverse climatic conditions. **AGRI-PASTE Mn** should preferably be applied early in the morning or late afternoon.
- Make sure all equipment is clean before use, and there are no residues in the tank.
- It is advisable to do a miscibility test prior to mixing **AGRI-PASTE Mn** with other chemicals.
- Ensure good agitation once the mixture is added to the spray tank.
- Consult with your chemical distributor should crop specific programs or any other information be required about the use of **AGRI-PASTE Mn**.
- **AGRI-PASTE Mn** is a highly concentrated paste with uniform particle sizes smaller than 5 µm so it can be used for fertigation, pivot, drip and micro application.
- For optimum results, **AGRI-PASTE Mn** should be used in a program with balanced fertilizers and in combination with foliar fertilizers.
- Contact your **Rolfes Agri** distributor or a **Rolfes Agri (Pty) Ltd** representative to develop a crop specific program in conjunction with the **Absolute Agri Crop Technology**, which is based on leaf and soil analysis.
- In all cases the optimal rates should be determined by soil fertility and soil type as well as crop type and the age of the crop.

CROP	Maximum Application Rate per Hectare	ApplicaRate per 100ℓ Water	RECOMMENDATIONS
CANOLA	1.6 ℓ	80 – 200 mℓ	Apply at onset of stem elongation. For a moderate deficiency apply at 4 – 6 leaf stage and repeat at stem elongation. For a severe deficiency repeat 10 – 14 days later. Do NOT apply during flowering. Apply in a minimum of 200 ℓ water / ha min. (If using less than 200 ℓ use 100 ℓ water rate).
CEREALS Wheat, Barley, Oats	1.6 ℓ	80 – 200 mℓ	Apply from 2 - 4 leaf stage to first node detectable. For moderate to severe deficiency, repeat applications within 10 – 14 days after first application. Apply in 200 ℓ water / ha min (if using less than 200 ℓ use 100 ℓ water rate).
MAIZE	1.6 ℓ	80 – 200 mℓ	Apply from 4-6 leaf stage to first node detectable. For moderate to severe deficiency, repeat applications within 10 – 14 days after first application. Apply in 200 ℓ water / ha minimum.
STONE FRUIT Peaches, Plums, Nectarines, Apricots, Cherries	8 ℓ	80 – 170 mℓ	Apply directly after 100% petal fall. Apply in sufficient water to provide good cover but avoid run-off 1000 - 2000 ℓ / ha (based on tree row volumes)
SUBTROPICAL FRUIT: Citrus Avocados, Mangoes	8 ℓ	80 – 170 mℓ	Apply at spring flush and at autumn flushes. Apply in sufficient water to provide good cover but avoid run-off 1000 – 4000 ℓ / ha (based on tree row volumes)
TOBACCO	1.6 ℓ	80 – 200 mℓ	Apply 2 weeks after transplant (3 – 4 leaf stage). Repeat 10 days later if necessary. Apply in 400 ℓ water / ha. Use 100 ℓ rate if less than 400 ℓ is used per ha.
VEGETABLES <i>Cruciferae</i> Broccoli, Cabbage, Brussel Sprouts and Cauliflower	1.6 ℓ	80 – 330 mℓ	Apply at 2-3 weeks after 100% emergence in 300 ℓ water/ha. For moderate to severe deficiencies repeat the application 14 days later. Apply in 400 ℓ water/ha.
Potatoes			Apply 2-3 weeks after 100% emergence in 300 ℓ water/ha. For moderate to severe deficiencies repeat the application 14 days later. Apply in 200 – 400 ℓ water/ha.
SOYBEAN	400 mℓ	200 mℓ	Apply at 4 – 6 leaf stage or as needed. Apply in 200 ℓ water/ha.

* **Important Note:** Never exceed the maximum rate per hectare per crop, as indicated above, irrespective of the water volume per hectare.