

**HARMFUL**  
KEEP OUT OF REACH OF CHILDREN

# TRACE-IT™ MANGANESE N



## TRACE ELEMENT

LIQUID MANGANESE FOLIAR FOR THE CORRECTION  
OR PREVENTION OF MANGANESE DEFICIENCIES

*grochem*

Contains: 20% w/v (200g/L) elemental manganese, present as the nitrate.



NET CONTENTS  
**20L**

GTRMNN/0618

**MANUFACTURED & DISTRIBUTED BY:** AgriNova New Zealand Ltd,  
15 Sunlight Grove, PO Box 50-080, Porirua, New Zealand.  
NZ Freephone: 0800 447 624, AUS 1800 777 068  
Email: [grochem@grochem.com](mailto:grochem@grochem.com)  
[www.grochem.com](http://www.grochem.com)



**PLEASE READ LABEL AND SAFETY DATA SHEET COMPLETELY BEFORE USE**

**HAZARD CLASSIFICATIONS:** 5.1.1C, 8.2C, 8.3A, 9.1B

**WARNING:** May intensify fire; oxidiser.

**DANGER:** Causes severe skin burns and serious eye damage.

**ECOTOXIC:** Toxic to aquatic life with long lasting effects.

**FIRST AID:** Immediately call a POISON CENTRE or doctor/physician. If medical advice is needed; have product container or label at hand.  
**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**IF ON SKIN:** Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  
**IF INHALED:** Remove to fresh air and keep at rest in a position comfortable for breathing.

**24-hour Emergency Telephone Number – For advice contact the National Poisons Centre – 0800 POISON (0800 764 766) – or a doctor, immediately. Have product container or label at hand. For specialist advice in an emergency only, call CHEMCALL (24hrs) 0800 243 6225. In a transport emergency dial 111.**

**HANDLING ADVICE:** Do not let material get into eyes, skin or on clothing. Avoid breathing vapours or mists. Wash thoroughly after handling. Do not eat, drink or smoke when handling this material. Use product with adequate ventilation. Launder work clothes frequently. Wear impermeable gloves and apron. Wear safety glasses; chemical goggles (if splashing is possible). Respiratory protection is not normally required for ambient air concentrations not exceeding the exposure limit. When respiratory equipment is required, wear an approved self-contained breathing apparatus with full-face piece operated in a positive pressure mode.

**STORAGE AND TRANSPORT:** Store locked up in a cool dry place away from direct sunlight, sources of intense heat or where freezing is possible. Store away from foodstuffs, clothing and combustibles. Keep container tightly closed when not in use. Sites holding more than 100L or more of this

product must hold a Hazardous Substance Test Certificate. Do not carry more than 700ml on a passenger service vehicle.

**SAFETY DATA SHEET:** A Safety Data Sheet is available from Grochem or [www.grochem.com](http://www.grochem.com)

**DISPOSAL: Product disposal:** Dispose of only by using in accordance with the label instructions or at an approved landfill, provided that: The substance will not at any time come into contact with an explosive or flammable substance (HSNO Class 1,2,3 or 4); there is no ignition source in the vicinity of the disposal site that is capable of igniting the substance; the concentration of the substance in any discharge from the landfill does not, after reasonable mixing, exceed any tolerable exposure limit and/or environmental exposure limit set for the substance or any of its components. **Container disposal:** Render packaging incapable of holding product and dispose of at an approved landfill.

**CONDITIONS OF SALE:** As no control can be exercised over the manner in which or the conditions under which this product is used, all conditions and warranties expressed or implied, other than those required by statute are excluded. No responsibility will be accepted for any damage or injury whatsoever arising from the storage, handling, application or use of this product.

Approved Pursuant to the HSNO Act 1996, under the Fertilisers – Oxidising [5.1.1], Corrosive Substances Group Standard. HSR002632. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

**PROPER SHIPPING NAME:**  
**Oxidising Liquid, Corrosive, NOS (Manganese Nitrate)**  
**UN No. 3098**

**Batch:**

**DoM:**

**DIRECTIONS FOR USE:**

**ALWAYS FOLLOW LABEL INSTRUCTIONS.**

Mix Trace-it Manganese N in its container thoroughly before use. Fill the spray tank until three quarters full with water and then, whilst agitating the spray tank, add the Trace-it Manganese N via the top filter. Continue agitation until application complete. Always apply diluted or mixed chemicals immediately, do not store.

**TANK MIXING OR CO-APPLICATION:** Read all labels carefully and adhere strictly to instructions on mixing. Apply to small test area only when using unfamiliar products or new crops. Many variables are outside the control of

AgriNova and can influence results of co-applied products and therefore co-application is entirely at the risk of the end user.

Trace-it Manganese N should be applied in low light conditions in the morning or evening or on cloudy days. Do not apply during periods of high sunlight, heat, during rain or prior to expected rain.

Where a deficiency is severe, additional applications may be required.

Poor water quality may reduce the effectiveness of the product, the solubility of the product and/ or increase the potential for phytotoxic effects on plants.

**APPLICATION RATES:**

CROP	RATE/HA	MIN WATER RATE/HA	RECOMMENDATIONS
Avocados	2-3L	500L	Apply during spring flush and again during summer flush.
Beans	2-3L	200L	Apply at 4-6 leaf stage, may be reapply just prior to flowering if required.
Brassicas	2-3L	200L	Apply between 4 to 9 leaf stage, reapply 10-14 days later if required.
Canola	2-3L	200L	Apply between 4 to 9 leaf stage and at stem extension if required.
Carrots	2-3L	200L	Apply once 15cm of growth, reapply if required 10-14 day later.
Cereals	3L	200L	Apply between 2nd leaf and first true node detectable.
Citrus	3-4L	1000L	Apply during spring flush and again during summer / autumn flushes.
Cucurbits	2-3L	500L	Apply between 4-6 leaf stage, reapply 10-14 days later if required.
Grapevines	2-3L	500L	Apply pre-flowering and, if required 10-14 days post flowering.
Kiwifruit	2-4L	500L	After bud burst but before flowering.
Lucerne (Alfalfa)	2-3L	200L	Apply post tillering.
Lettuce (Field)	2-3L	500L	Apply 10-14 post transplant, if required reapply 10-14 days later.
Maize / Corn	2-3L	200L	Apply at 4-6 leaf stage.
Olives	2-3L	500L	Apply just after bud-break and again at opening of calyx.
Onion	2-3L	200L	Apply at 15cm growth, repeat 10-14 days later if required.
Pipfruit	2-4 L	500L	Apply 1-2 applications, 10-14 days apart starting at least two weeks post flowering in russet sensitive varieties. May be applied post-harvest and pre-flowering if required.
Potatoes	2-3L	200L	Apply one week post 100% emergence, depending on petiole analysis a second application may be required during tuber sizing.
Raspberries	2-3L	500L	Apply at start of flowering.
Stone Fruit	2-3L	500L	Apply 1-2 applications at 10-14 day intervals post fruit set.
Strawberries	2-3L	200L	Apply at green bud.
Sweet Potatoes	2-3L	500L	Apply one week post 100% emergence.
Tomato	2-3L	500L	Apply 4-6 leaf stage. Reapply 10-14 days later if required.