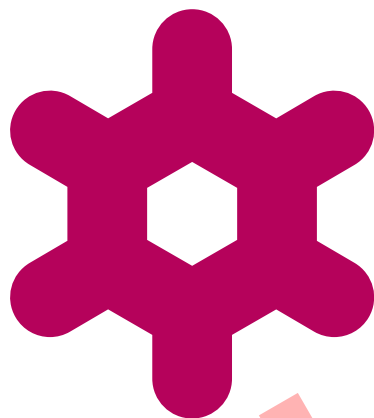


**DANGER**  
**KEEP OUT OF REACH OF CHILDREN**

# TRACE-IT™ MANGANESE



## TRACE ELEMENT

LIQUID MANGANESE FOLIAR FOR THE CORRECTION  
OR PREVENTION OF DEFICIENCIES

*grochem*

Contains: 19% (190g/L) elemental Manganese and 11% (110g/L) of elemental Sulphate



**PROPER SHIPPING NAME:**  
**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS. UN NO. 3082**



NET CONTENTS  
**20L**

**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)

GCTRACEMN0422



# TRACE-IT MANGANESE™

PLEASE READ LABEL AND SAFETY DATA SHEET COMPLETELY BEFORE USE

**CAUSES DAMAGE TO ORGANS SYSTEM THROUGH PROLONGED OR REPEATED EXPOSURE.  
TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.**

**FIRST AID:** If medical advice is needed, have product container or label at hand. Call a POISON CENTRE or doctor/physician if you feel unwell.

**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 breathe dust, fume, gas, mist, vapours or spray. Wash hands, face and all exposed skin thoroughly after handling. Do not eat, drink or smoke while using this product. Avoid release to the environment.

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

**STORAGE AND TRANSPORT:** Store in a cool environment. Do not carry more than 5L on a passenger service vehicle.

**DISPOSAL: Product disposal:** Use as directed on the label. If not possible, organise with distributor or local authority a suitable disposal. **Container disposal:** Triple rinse container and deliver to an Agrecovery centre ([www.agrecovery.co.nz](http://www.agrecovery.co.nz)).

**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 HSN0 Act 1996, under the Fertilisers (Subsidiary Hazard) Group Standard HSR002571. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

## DIRECTIONS FOR USE:

### ALWAYS FOLLOW LABEL INSTRUCTIONS.

Mix Trace-it Manganese 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 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 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.

**STORAGE:** Keep in cool, dry chemical store, out of reach of children and animals. Protect from frost and other climatic extremes (including temperatures exceeding 400C). 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
Beans	2-3L	200L	Apply at 4-6 leaf stage, may be reapplied just prior to flowering if required.
Brassicas & Beets	2-3L	200L	Apply at 4 true leaf stage, reapply 10-14 days later if required.
Carrots	2-3 L	200L	Apply once 15cm of growth, reapply if required 10-14 day later.
Cereals	2-3L	200L	Apply between 2nd leaf and first true node detectable.
Citrus	3-4L	1000L	Apply during spring and autumn flushes.
Cucurbits	2-3L	500L	Apply at 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.
Hops	2L	500L	Apply as required by tissue analysis. Repeat in 10-14 days if necessary.
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.
Onion	2-3L	200L	Apply at 15cm growth, repeat 10-14 days later if required.
Peas	2-3L	200L	Apply at 4-6 leaf stage.
Pipfruit	2-4L	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.
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.