

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: WUXAL<sup>®</sup> Top N  
 Product No: 12730  
 Product Use: Fertilizer, preparation for plant nutrition  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd  
 Address: 10 Firth Street  
 Drury, 2113

Telephone: +64 9 294 8453  
 Fax Number: +64 9 294 7272

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

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### Section 2. Hazards Identification

**The manufacturer has stated this substance is NON hazardous according to the EPA Hazardous Substances (Classification) Notice 2017**

### Section 3. Composition / Information on Ingredients

No hazardous product as specified in Directive 67/548/EEC.

### Section 4. First Aid Measures

Routes of Exposure:

- If in Eyes                      Rinse cautiously with water for several minutes. If eye irritation occurs: Get medical advice.
  
- If on Skin                        Wash with plenty of soap and water. If skin irritation occurs: get medical advice.
  
- If Swallowed                    Immediately rinse the mouth with water, then drink a lot of water. Consult the doctor in case of persistent trouble. Get medical assistance if you feel unwell.
  
- If Inhaled                        Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

**Most important symptoms and effects, both acute and delayed**

Symptoms:                      None known

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable
<b>Hazards from decomposition products</b>	The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.
<b>Suitable Extinguishing media</b>	Water
<b>Precautions for firefighters and special protective clothing</b>	If larger quantities of the product are on fire wear chemical protecting clothes and breathing apparatus not depending on recirculated air.
<b>HAZCHEM CODE</b>	<b>None allocated</b>

## Section 6. Accidental Release Measures

Remove soiled clothes.

Take up with absorption media. Disposal of contaminated material as waste according to section 13.

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

## Section 7. Handling and Storage

### Handling

- Wear protective clothing.

### Storage

- Protect the product from impurity or drying up.
- Do not store in metal containers (corrosion risk).
- Keep containers tightly closed.
- Do not store together with food and luxury food, beverage and animal feed.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

No ingredient has exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

### Engineering

**Controls** Ensure adequate ventilation is available to reduce exposure

## Personal Protection Equipment



<b>Eyes</b>	Wear safety glasses.
<b>Hands</b>	Chemical resistance rubber or plastic gloves.
<b>Skin</b>	Closed working clothes.
<b>Respiratory</b>	Not required.
<b>Hygiene</b>	Do not eat and drink at work. Remove immediately soiled and soaked clothes. Wash hands and face after work.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Aqueous Liquid
<b>Colour</b>	Green
<b>Odour</b>	Product specific
<b>Odour Threshold</b>	Not applicable
<b>pH (original state)</b>	Approx 6.8
<b>pH at 16g/l H<sub>2</sub>O and 20°C:</b>	Approx 6.9
<b>Change in physical state</b>	> 100°C evaporation of water
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Not applicable
<b>Upper and Lower Explosive Limits</b>	Not applicable
<b>Explosive hazards</b>	The product is not spontaneously inflammable.
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density</b>	Not applicable
<b>Density @ 20°C</b>	approx. 1.2 g/cm <sup>3</sup>
<b>Water Solubility @ 20°C</b>	To a very high degree
<b>Partition Coefficient:</b>	Not applicable
<b>Self ignition</b>	Not applicable
<b>Decomposition Temperature</b>	Not applicable
<b>Kinematic Viscosity</b>	Not applicable
<b>Particle Characteristics</b>	Not applicable

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Reacts with alkalis setting ammonia free.
<b>Conditions to Avoid</b>	Temperatures above +40° C. Keep the product from drying up.
<b>Incompatible Materials</b>	Alkalis.
<b>Hazardous Decomposition Products</b>	No decomposition if correctly used. Thermic decomposition : Nitrous gases and ammonia.

## Section 11 Toxicological Information

### Toxicological tests

Acute toxicity:

Oral for this product = LD<sub>50</sub> (oral): =>5000mg/kg = Non Hazardous

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After uptake of large quantities: Diarrhoea, disturbed electrolyte balance.

**Acute Effects:**

<b>Swallowed</b>	Not triggered, but the following applies after uptake of large quantities: Gastrointestinal complaints, drop in blood pressure, disturbed electrolyte balance. Oral for this product = LD50 (oral): =>5000mg/kg = Non Hazardous
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.
<b>Skin</b>	Not applicable.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

**Section 12. Ecotoxicological Information**

This product is not known to be hazardous to the environment.

**Section 13. Disposal Considerations**

**Disposal Method:**

Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations.

**Precautions or methods to avoid:** Dispose of unwanted product as a hazardous material according to Local Regulations.

**Section 14 Transport Information**

This product is not classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

**Section 15 Regulatory Information**

**The manufacturer has stated this substance is NON hazardous according to the EPA Hazardous Substances (Classification) Notice 2017.**

**Section 16 Other Information**

**Glossary**

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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