



# Noble Earth Technologies

## Plant Hydro Nutrient

### MATERIAL SAFETY DATA SHEET

#### COMPANY DETAILS

Company Name & Address: Noble Earth Technologies PO BOX 1733 Double bay 1360 Sydney NSW

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**Not classified as hazardous according to the criteria of Worksafe Australia.**

#### I- IDENTIFICATION

Product Name: Noble Earth Technologies Plant Hydrous Nutrient

Other Names: None

Product Code: None.

UN No: None allocated Hazchem Code: None allocated

Dangerous Goods Class: None allocated

Sub Risk Class: None allocated

Packaging Group: None allocated EPG: None allocated

Poison Schedule: S5

Chemical Family: Water solution of ingredients (see below).

Uses: Liquid fertiliser.

#### Physical Appearance & Properties

Appearance & Odour: Clear liquid. Ammoniacal odour.

Melting/softening point: Approximately 0°C.

Boiling point and vapour pressure: Approximately 100°C at 100kPa.

Volatile materials: Water component.

Flashpoint: Does not burn.

Specific gravity: >1.0

Solubility in water: Completely soluble.

Corrosiveness: Not corrosive.

Ingredients:			Worksafe Exposure Limits	
Chemical entity	CAS No	Proportion %	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Ammonia	7664-41-7	1-10	17	24
Phosphoric acid	7664-38-2	1-10	1	3
Urea	57-13-6	10-30	not set	not set
Tetrapotassium pyrophosphate	7320-34-5	1-10	not set	not set
Water	7732-18-5	To 100	not set	not set

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

#### II HEALTH HAZARD

##### Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

##### Acute Effects:

Swallowed: Data suggests that this product is harmful if swallowed. Product is also irritating to the gastrointestinal tract. Will cause burning sensation to mouth and throat and may cause reddening and blisters.

Eye: This product is irritating to the eyes. It will cause discomfort such as stinging pain, watering and redness of the eyes. Effects may last after exposure has ceased, and in severe exposure, long lasting or even permanent effects such as corneal damage can occur.

Skin: This product is mildly irritating to skin. However, it is unlikely to cause more than minor discomfort or effects such as itchiness, occasional small blisters or slight skin reddening.

Inhalation: Data indicates that this product may be irritating if inhaled. May lead to minor discomfort which should quickly disappear once exposure has ceased.

#### **First Aid:**

Eyebaths or eyewash stations should be provided where this product is being used.

If poisoning occurs, contact a Doctor or Poisons Information Centre.

If swallowed, do NOT induce vomiting. Give a glass of water.

Eyes: If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. Seek medical attention.

Skin: If product gets on skin, wash skin for at least 10 minutes under running water. If irritation persists, seek medical attention.

Inhalation: No first aid measures normally required. However, if mists or dusts have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation persists more than about 30 minutes, seek medical advice.

Advice to Doctor: Treat symptomatically. Note the nature of this product.

### **III- PRECAUTIONS FOR USE**

Risk Phrases are: R22, R36. Harmful if swallowed. Irritating to eyes.

#### **Exposure Standards:**

A time weighted average (TWA) has been established for Ammonia, present in significant quantities in this product. This value is 17mg/m<sup>3</sup>. The corresponding STEL level is 24mg/m<sup>3</sup>. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet.

#### **Engineering Controls:**

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

#### **Personal Protection:**

The following instructions are meant for people coming into frequent and lengthy contact with this product. For occasional use, take precautions suitable for the conditions under which the product is being used.

Respiratory Protection: The use of a dust or vapour mask is suggested when this product is being used, especially if in confined or dusty spaces. For help in selecting suitable equipment, consult AS/NZS 1715.

Protective Gloves: Impermeable protective gloves should be worn when you are using this product, to prevent irritation. For help in selecting suitable equipment, consult AS 2161.

Eye Protection: Protective eyewear should be worn when using this product. Eye contact may prove painful and dangerous and should be avoided. Consult AS1336 and AS/NZS 1337 for advice on Industrial Eye Protection.

Clothing: Clean overalls or protective clothing should be worn, preferably with an apron. Consult AS2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

### **IV SAFE HANDLING INFORMATION**

Safety Phrases are: S20, S25. When using, do not eat or drink. Avoid contact with eyes.

#### **Storage & Transport**

No special storage and transport requirements. This product has no UN classification. This product is a S5 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

#### **Spills & Disposals**

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered. Thoroughly launder protective clothing before storage or re-use. See above under Personal Protection regarding Australian Standards relating to personal protective equipment. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash Area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

#### **Fire & Explosion Hazard**

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Flashpoint: Does not burn.

Flammability limits: Not applicable. This product does not burn.

Extinguishing Media: This product does not burn. Use extinguishing media suited to the materials that are burning.

Special Fire Fighting procedures: When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered.

Unusual Fire & Explosion Hazards: Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation: This product is unlikely to spontaneously polymerise.

Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen, and under some circumstances, oxides of nitrogen. Water.

Materials to avoid: acids.

## V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

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### **National Poisons Information Centre: Dial 13 1126 (from anywhere in Australia)**

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER SHOULD READ THIS MSDS AND CONSIDER THE INFORMATION IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE INCLUDING IN CONJUNCTION WITH OTHER PRODUCTS. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY. THE RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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