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**DATE OF ISSUE 9/02/2012**  
**MATERIAL SAFETY DATA SHEET**  
**E & G greenIT**

Hazardous Substance

**1. IDENTIFICATION OF MATERIAL**

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**PRODUCT NAME** E & G greenIT  
**OTHER NAMES** N/A  
**USE** Hydroponic Nutrient  
**SUPPLIER** VOTTI ENTERPRISES PTY LTD  
**ACN** 169 691 098  
**ADDRESS** 8 TANIA AVE WINDSOR GARDENS SA 5087  
**EMERGENCY PHONE** 0432 268 811  
**FOR EMERGENCY RESPONSE**..... 1800 625 526 (in Australia)  
**NATIONAL POISONS INFORMATION CENTRE**..... 13 11 26 (from anywhere in Australia)  
**NEW ZEALAND POISON INFORMATION CENTRE**..... 0800 764 766  
**WORLD EMERGENCY NUMBER** ..... +613 9573 3112 (24hr Worldwide)

**2. HAZARDS IDENTIFICATION**

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**HAZARD DESIGNATION:** HAZARDOUS SUBSTANCE POISON (S5)  
Hazard classification according to the criteria of NOHSC. Poison according to SUSDP. Not Dangerous under the ADG Code.

**RISK PHRASES:** R22, R41, R37/38. Harmful if swallowed. Risk of serious damage to eyes. Irritating to respiratory system and skin.

**SAFETY PHRASES:** S20, S23, S38, S24/25. S36/37/39. When using, do not eat or drink. Do not breathe spray. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.

**MAJOR HEALTH HAZARDS:** May cause serious damage to eyes, irritating to respiratory system and skin, harmful if swallowed.

**POTENTIAL HEALTH EFFECTS:**

**Inhalation - Short term exposure**

Available data indicates that this product is not harmful. However product is an inhalation irritant. Symptoms may include headache, irritation of nose and throat and increased secretion of mucous in the nose and throat. Other symptoms may also become evident, but they should disappear after exposure has ceased.

**Inhalation - Long Term exposure**

No data for health effects associated with long term inhalation.

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**Skin Contact - Short term exposure**

Available data indicates that this product is not harmful. It should present no hazards in normal use. However product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms such as blisters may also become evident, and may last long after exposure has ceased.

**Skin Contact - Long Term exposure**

No data for health effects associated with long term skin exposure.

**Eye Contact - Short term exposure**

This product may be absorbed through the eyes in harmful quantities. Symptoms are similar to those via other exposure routes. In addition the product is a severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.

**Eye Contact - Long Term exposure**

No data for health effects associated with long term eye exposure

**Ingestion - Short term exposure**

Significant oral exposure is considered to be unlikely. Available data show that this product is harmful, but symptoms are not available. This product is unlikely to cause any irritation problems in the short or long term.

**Ingestion - Long Term exposure**

No data for health effects associated with long term ingestion.

**Carcinogen Status - NOHSC**

No significant ingredient is classified as carcinogenic by NOHSC.

**Carcinogen Status - NTP**

No significant ingredient is classified as carcinogenic by NTP.

**Carcinogen Status - IARC**

No significant ingredient is classified as carcinogenic by IARC.

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### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

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<b>CHEMICAL ENTITY</b>	<b>CAS NO</b>
Potassium Silicate	1312-76-1
Kelp	N/A
Molassis	N/A

### **4. FIRST AID MEASURES**

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#### **General Information**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. A 24 hr Worldwide call number is +613 9573 3112. Have this MSDS with you when you call.

### **5. FIRE FIGHTING MEASURES**

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#### **Suitable Extinguishing Equipment**

Use appropriate fire extinguisher for the surrounding environment.

#### **Precautions in connection with fire**

Fire fighters to wear self-contained breathing apparatus and gas tight chemical resistant suit if risk of exposure to vapour or products of combustion.

#### **Fire/Explosion Hazard**

Non combustible.

Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: silicon dioxide (SiO<sub>2</sub>), metal oxides.

May emit poisonous fumes.

May emit corrosive fumes

#### **Hazchem Code**

None allocated

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Spills and Disposal** **Minor**

Slippery when spilt. Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination. Collect and seal in properly labelled containers for disposal. If contamination of sewers or waterways has occurred advise the local emergency services. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable labelled container for waste disposal.

### **Major**

Clear area of personnel and move upwind.

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Neutralise/decontaminate residue.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- If contamination of drains or waterways occurs, advise emergency services.

## **7. HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

### **Storage**

This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Make sure that this substance does not come into contact with incompatible substances listed in section 10. Product may settle or separate on standing and may require stirring before use.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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The following Australian Standards will provide general advice regarding safety clothing and equipment.

<b>Respiratory equipment</b> .....	AS/NZS 1715.
<b>Protective Gloves</b> .....	AS 2161.
<b>Industrial Clothing</b> .....	AS 2919.
<b>Industrial Eye Protection</b> .....	AS1336 and AS/NZS 1337.
<b>Occupational Protective Footwear</b> .....	AS/NZS2210

### **Exposure Limits**

TWA (mg/m<sup>3</sup>) STEL (mg/m<sup>3</sup>) Exposure limits have not been established by NOHSC for any of the significant ingredients in this product. No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

### **Eye Protection**

Protective glasses or goggles must be worn when this product is being used. Failure to protect your eyes may lead to severe harm to them or to general health. Emergency eye wash facilities must also be available in an area close to where this product is being used.

### **Skin Protection**

It is essential that all skin areas are adequately covered by impermeable gloves, overalls, hair covering, apron and face shield. See below for suitable material types.

### **Suitable Protective Material Types**

Rubber or PVC

### **Respirator**

Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance</b> .....	Black liquid.
<b>Odour</b> .....	Sweet odour.
<b>Boiling Point</b> .....	No data. Expected to be about 100°C
<b>Freezing/Melting Point</b> .....	Expected to be about -5°C
<b>Vapour Pressure</b> .....	No data
<b>Vapour Density</b> .....	No data
<b>Specific Gravity</b> .....	1.028kg per litre
<b>Water Solubility</b> .....	Completely soluble
<b>pH</b> .....	11 to 12.5
<b>Volatility</b> .....	No data
<b>Odour Threshold</b> .....	No data
<b>Evaporation Rate</b> .....	No data
<b>Coeff Oil/water distribution</b> .....	No data
<b>Auto-ignition temp</b> .....	Not applicable – does not burn

## **10. STABILITY AND REACTIVITY**

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### **Reactivity**

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

### **Conditions to Avoid**

None known.

### **Incompatibilities**

Forms gels with acids. Corrodes metals such as aluminium, tin, lead and zinc and their alloys.

### **Fire Decomposition**

Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. Potassium compounds, silicon compounds.

### **Polymerisation**

This product will not undergo polymerisation reactions.

## **11. TOXICOLOGICAL INFORMATION**

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**Local Effects**  
**Target Organs**  
None known.

**Classification of Hazardous Ingredients**

**Ingredient Risk Phrases**

No ingredient mentioned in the List of Designated Hazardous Substances is present in this product at hazardous concentrations.

## **12. ECOLOGICAL INFORMATION**

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**Environment Protection** . . . . . Avoid contaminating waterways.

## **13. DISPOSAL CONSIDERATIONS**

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**Disposal**

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Note that properties of a product may change in use, so that the following suggestions may not always be appropriate. The following may help you in properly addressing this matter for this product. This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable, consider controlled incineration, or landfill.

## **14. TRANSPORT INFORMATION**

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**Transport Information**

This product is not classified as Dangerous Goods. No special transport conditions are necessary unless required by other regulations.

**UN Number:** None allocated

**Hazchem Code:** None allocated

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## **15. REGULATORY INFORMATION**

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### **AICS**

All of the significant ingredients in this formulation are compliant with NICNAS regulations.

## **16. OTHER INFORMATION**

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**This MSDS contains only safety-related information. For other data see product literature.**

### **Acronyms**

**ADG Code** . . . . . Australian Code for the Transport of Dangerous Goods by Road and Rail.

**AICS** . . . . . Australian Inventory of Chemical Substances.

**CAS number** . . . . . Chemical Abstracts Service Registry Number.

**Hazchem Code** . . . . . Emergency action code of numbers and letters that provide information to emergency services especially firefighters.

**IARC** . . . . . International Agency for Research on Cancer.

**NOHSC** . . . . . National Occupational Health and Safety Commission.

**NOS** . . . . . Not otherwise specified.

**NTP** . . . . . National Toxicology Program (USA).

**R-Phrase** . . . . . Risk Phrase.

**UN Number** . . . . . United Nations Number.

**SUSDP** . . . . . Standard for the Uniform Scheduling of Drugs and Poisons.

**STEL** . . . . . Short Term Exposure Limit

**TWA** . . . . . Time Weighted Average

**LD50** . . . . . Lethal Dose for 50% Mortality

## **17. DISCLAIMER**

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The data and recommendations presented herein are based upon research of others and are believed to be accurate. However, no warranty is expressed or implied regarding this data or the results to be obtained from use thereof. VOTTI ENTERPRISES PTY LTD assumes no responsibility for injury to customers or third party proximity caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet.

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