SECTION 1 – IDENTIFICATION OF CHEMICAL PRODUCT

PRODUCT NAME: GroWonders ULTRA TRACE
EFFECTIVE DATE: January 19, 2007
CHEMICAL FAMILY: Fertilizer
FORMULA: Proprietary
CAS NUMBER: Blend

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Identity Information</th>
<th>Percent</th>
<th>CAS Number</th>
<th>PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture of Ferrous Salts</td>
<td>3 - 8</td>
<td>Conf.</td>
<td>None Established</td>
</tr>
<tr>
<td>Derivatives of Sulfuric Acid</td>
<td>4 - 8</td>
<td>Conf.</td>
<td>None Established</td>
</tr>
<tr>
<td>Manganese</td>
<td>&lt; 2</td>
<td>Conf.</td>
<td>None Established</td>
</tr>
<tr>
<td>Zinc</td>
<td>&lt; 1</td>
<td>Conf.</td>
<td>None Established</td>
</tr>
<tr>
<td>Trace amounts Copper, Cobalt, Nickel</td>
<td>&lt; 1</td>
<td>Conf.</td>
<td>None Established</td>
</tr>
<tr>
<td>Water</td>
<td>50 - 75</td>
<td>7732-18-5</td>
<td>None Established</td>
</tr>
</tbody>
</table>

The criteria for listing components in the composition section are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 14 for applicable states right to know and other regulatory information.

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
APPEARANCE / ODOR: Clear Light Green Liquid / Mild Odor
SHORT TERM EXPOSURE: GENERAL: This product contains acids that are corrosive and can cause severe and painful burns on contact with any part of the body or if taken internally. The mucous membranes of the eyes and the upper respiratory tract are especially susceptible to these irritating effects. INHALATION: Inhalation of excessive concentrations of mist or vapor can cause severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat, and a choking sensation. If inhaled deeply, edema of the lungs may occur. EYES: Contact with this product, either in gas or in solution, can cause severe irritation and painful burns of the eyes and eyelids. The acid MUST be removed quickly with thorough irrigation with water or there may be prolonged or permanent visual impairment or total loss of sight. SKIN: Concentrated solutions are destructive to clothing and on contact with skin, can cause severe burns unless promptly washed off.
INGESTION: This product, when swallowed, can cause severe burns of the mucous membranes of the mouth, esophagus and stomach.

OSHA REGULATED: No
LISTED CARCINOGEN: No
NTA: No
IARC MONOGRAPHS: No

POTENTIAL HEALTH EFFECTS
INHALATION: Severe Irritant
INGESTION: Corrosive
SKIN (DERMAL): Corrosive
OVER EXPOSURE EFFECTS: Immediate irritation and burning sensation to the eyes followed by possible damage to skin or eye tissue. Ingestion may cause gastric distress.

SECTION 4 – FIRST AID MEASURES

FIRST AID:
SKIN CONTACT: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately. EYE CONTACT: Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately. INGESTION: Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately. INHALATION: Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT: NA - Water Solution
EXTINGUISHING MEDIA: Governed by other Materials present.
DECOMPOSITION
PRODUCTS: From Fire; Smoke, Carbon Dioxide, Carbon Monoxide.
LOWER FLAME LIMIT: NA
HIGHER FLAME LIMIT: NA
UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known
FIRE FIGHTING EQUIPMENT: Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
SECTION 6 – ACCIDENTAL RELEASE MEASURES

CHEMTEL EMERGENCY NUMBER (24 Hour): ................... 1-800-255-3924

SPILL: ........................................... In case of spillage, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance with applicable regulations.

RCRA STATUS: .......................... None

SECTION 7 – HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND PROMPT REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.

HANDLING AND STORAGE: .. Store in a cool dry place. Keep container closed when not in use. Drum must not be washed out or used for other purposes.

PRECAUTIONARY MEASURES: ................................ Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section 4.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see section 3), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment.

EYE PROTECTION: ................... Chemical safety goggles meeting the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes. Wear safety glasses meeting the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 where no contact with the eye is anticipated.

RESPIRATORY PROTECTION: .................... Use NIOSH approved vapor respirator if exposure is unknown or exceeds permissible limits. A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use.

Use NIOSH / MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH / MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

PROTECTIVE GLOVES:........... Wear impervious gloves
VENTILATION: ......................... Local Exhaust
MECHANICAL EXHAUST: ...... Desired in closed places
LOCAL EXHAUST: .................... Recommended
VENTILATION NOTES: Provide natural or mechanical ventilation to control exposure levels below Airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

THRESHOLD LIMIT VALUE: None established for this product.

PROTECTIVE EQUIPMENT: HMIS PERSONAL PROTECTION: C: Splash Goggles, Gloves, Apron

The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- **APPEARANCE / ODOR:** Clear Light Green Liquid / Mild Odor
- **BOILING POINT:** 212°F
- **FREEZING POINT:** 32°F
- **VAPOR PRESSURE:** ND
- **VAPOR DENSITY (AIR=1):** > 1
- **SPECIFIC GRAVITY:** 1.26 - 1.28
- **pH:** 1.40 - 1.80
- **SOLUBILITY IN WATER:** Soluble

**SECTION 10 – STABILITY AND REACTIVITY**

- **STABILITY:** Stable
- **HAZARDOUS POLYMERIZATION:** Will Not Occur
- **POLYMERIZATION AVOID:** None
- **INCOMPATIBILITY:** Ammonium, Chlorine, Potassium Chlorate, Nitric Acid, Metal Nitrates and Nitrites, Bases, Bromine Gas.
- **CONDITIONS TO AVOID:** Contact with Chlorine, Potassium Chlorate, Nitric Acid, Metal Nitrates and Nitrites, Bases, Bromine Gas.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

- **EYE EFFECTS:** The eye irritation hazard is based on data from information supplied by raw material(s) supplier(s).
- **SKIN EFFECTS:** The skin irritation hazard is based on data from information supplied by raw material(s) supplier(s).
- **ACUTE ORAL EFFECTS:** The acute oral toxicity is based on data from information supplied by raw material(s) supplier(s).
- **ACUTE INHALATION EFFECTS:** The acute respiratory toxicity is based on data from information supplied by raw material(s) supplier(s).

**SECTION 12 – ECOLOGICAL INFORMATION**

Data from laboratory studies and from scientific literature is noted below if available.
**SECTION 13 DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** .......... Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

**SECTION 14- TRANSPORTATION INFORMATION**

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate regulations to properly classify your shipment for transportation.

**PROPER SHIPPING NAME:** CORROSIVE LIQUID N.O.S. Contains (Mixture of Ferrous Salts and Derivatives of Sulfuric Acid), 8, UN1760, PGIII. Guide #154.

**REPORTABLE QUANTITY:** None

**HAZARD CLASS AND LABEL:** 8, Corrosive Liquid

**UN NUMBER:** 1760

**NA NUMBER:** None

**PACKAGING SIZE:** 55 gal. drums, 5 gal. pails

**SECTION 15 - REGULATORY INFORMATION**

**SARA 311 CATEGORIES:**

- EPA ACUTE: Yes
- EPA CHRONIC: No
- EPA IGNITABILITY: No
- EPA REACTIVITY: No
- EPA SUDDEN RELEASE OF PRESSURE: No

**CERCLA RQ VALUE:** None

**SARA TPQ:** None

**SARA RQ:** None

**EPA HAZARD WASTE #:** D002 - Characteristic of Corrosivity

**CLEAN AIR:** NA

**CLEAN WATER:** CWA Section 311

**SARA SECTION 313:** None

**NFPA HEALTH:** 2

**NFPA FLAMMABILITY:** 0

**NFPA REACTIVITY:** 0

**DEA Chemical Trafficking Act:**

**TSCA STATUS:** All ingredients in this product are on the TSCA Inventory List.
SECTION 16 - ADDITIONAL INFORMATION

FOOT NOTES: ND - No Data Available   NA - Not Applicable  < = Less Than  > = Greater Than

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Company Health and Risk Assessment Unit, PO Box 1519, Gretna, LA 70054-1519.

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

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