Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • Pennington® UltraGreen® Plant Starter with Vitamin B1
Synonyms • 100519408; Speciality plant fertilizer; UPC # 0-21496-01325-1
Product Description • Clear liquid plant starter with vitamin B1.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Plant starter fertilizer
Restrictions on use • Avoid contact with skin and eyes. Keep out of the reach of children. Not for human consumption. Do not take internally.

Details of the supplier of the safety data sheet

Manufacturer • Central Garden & Pet Company, Garden Division
1000 Parkwood Circle, Suite 700
Atlanta, GA 30339
United States
www.penningtonfertilizer.com

Emergency telephone number

Manufacturer • 1-800-265-0761
Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC
Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside US Collect Calls Accepted

Section 2: Hazard Identification

United States (US)
According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Does not meet hazard criteria

Label elements

OSHA HCS 2012
Hazard statements • No label element(s) required

Other hazards

OSHA HCS 2012 • This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.
Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classifications According to Regulation/Directive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non hazardous ingredients</td>
<td>NDA</td>
<td>&gt;97%</td>
<td>OSHA HCS 2012: Not classified - criteria not met</td>
</tr>
<tr>
<td>EDTA Acid monosodium ferric salt</td>
<td>CAS: 15708-41-5</td>
<td>1%</td>
<td>OSHA HCS 2012: Acute Tox Cat. 4 Inhal; Irrit Skin Cat. 2, Eye Cat. 2B</td>
</tr>
<tr>
<td>EDTA disodium manganous salt</td>
<td>CAS: 15375-84-5</td>
<td>1%</td>
<td>OSHA HCS 2012: Not classified - criteria not met</td>
</tr>
<tr>
<td>EDTA zinc disodium salt</td>
<td>CAS: 14025-21-9</td>
<td>1%</td>
<td>OSHA HCS 2012: Not classified - criteria not met - data lacking</td>
</tr>
<tr>
<td>Boric acid</td>
<td>CAS: 10043-35-3</td>
<td>&lt;1%</td>
<td>OSHA HCS 2012: Reproductive toxiant Cat. 2</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation: Get medical attention if symptoms occur.
- Skin: Wash skin with soap and water.
- Eye: Get medical attention if symptoms occur.
- Ingestion: Call a physician or poison control center.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- If medical advice is needed, have product container or label at hand.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media: Use water, foam, carbon dioxide, or dry chemical.
- Unsuitable Extinguishing Media: None known.

Firefighting Procedures

- Firefighters should wear full protective clothing including self contained breathing apparatus.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards: In case of fire use media as appropriate for surrounding fire.
- Hazardous Combustion Products: No data available.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures
Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Use appropriate Personal Protective Equipment (PPE)

Emergency Procedures
- Use normal clean up procedures.

Environmental precautions
- No special environmental precautions necessary.

Methods and material for containment and cleaning up

Containment/Clean-up Measures
- No data available.

Section 7 - Handling and Storage

Precautions for safe handling

Handling
- Avoid contact with skin and eyes. Wash hands after use.

Conditions for safe storage, including any incompatibilities

Storage
- Keep container/package tightly closed in a cool, well-ventilated place. Store locked up. Keep out of reach of children. Keep only in original container.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines
- No data available.

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>Result</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid (10043-35-3) STELs</td>
<td>6 mg/m3 STEL (inhale fraction, listed under Borate compounds, inorganic)</td>
<td></td>
</tr>
<tr>
<td>Boric acid (10043-35-3) TWA</td>
<td>2 mg/m3 TWA (inhale fraction, listed under Borate compounds, inorganic)</td>
<td></td>
</tr>
</tbody>
</table>

Exposure Control Notations

ACGIH
- Boric acid (10043-35-3): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen (listed under Borate compounds, inorganic))

Exposure Limits Supplemental

ACGIH
- Boric acid (10043-35-3): TLV Basis - Critical Effects: (upper respiratory tract irritation (listed under Borate compounds, inorganic))

Exposure controls

Engineering Measures/Controls
- No data available.

Personal Protective Equipment

Pictograms

Respiratory
- Not required with normal use.

Eye/Face
- If prolonged exposure is anticipated, it is recommended for handles to wear goggles. Not required with normal use.

Hands
- Wear appropriate gloves.

Skin/Body
- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.
Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>General Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liquid</td>
<td>Clear liquid.</td>
<td>Boiling Point: 212 F (100 C) water</td>
</tr>
<tr>
<td></td>
<td>Clear</td>
<td>Odorless</td>
<td>Melting Point: 32 F (0 C) water</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
<td>Decomposition Temperature: No data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Specific Gravity/Relative Density: 1.02 Water=1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Water Solubility: Soluble</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Non-viscous</td>
<td></td>
<td>pH: 6.27</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Viscosity: Non-viscous</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Volatility:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Evaporation Rate: water</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>VOC (Wt.): 0 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Flammability:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Flash Point: &gt; 200 F (&gt; 93.3333 C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UEL: No data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LEL: No data available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Flammability (solid, gas): No data available</td>
</tr>
<tr>
<td>Environmental</td>
<td>Octanol/Water Partition coefficient: No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Section 10: Stability and Reactivity

### Reactivity
- No dangerous reaction known under conditions of normal use.

### Chemical stability
- Stable under normal temperatures and pressures.

### Possibility of hazardous reactions
- Hazardous polymerization will not occur.

### Conditions to avoid
- No data available.

### Incompatible materials
- No data available.

### Hazardous decomposition products
- No data available.

## Section 11 - Toxicological Information
Information on toxicological effects

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>OSHA HCS 2012 • Not classified - data lacking</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

Potential Health Effects

**Inhalation**
- **Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**
  - No data available.

**Skin**
- **Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**
  - No data available.

**Eye**
- **Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**
  - No data available.

**Ingestion**
- **Acute (Immediate)**
  - May be harmful if swallowed.
- **Chronic (Delayed)**
  - No data available.

**Carcinogenic Effects**

<table>
<thead>
<tr>
<th>CAS</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>10043-35-3</td>
<td>Evidence of Carcinogenicity</td>
</tr>
</tbody>
</table>

**Reproductive Effects**
- No data available.

Section 12 - Ecological Information

**Toxicity**
- No data available

**Persistence and degradability**
- No data available
Bioaccumulative potential
- No data available

Mobility in Soil
- No data available

Other adverse effects
- Material data lacking.

Section 13 - Disposal Considerations

Waste treatment methods
Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not contaminate water when disposing of equipment washwaters or rinsate.

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class (es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>None</td>
<td>Not Regulated</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>None</td>
<td>Not Regulated</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>None</td>
<td>Not Regulated</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Special precautions for user
- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- No data available

Other information
- IMO/IMDG: No data available
- IATA/ICAO: No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
- None

<table>
<thead>
<tr>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component</td>
</tr>
<tr>
<td>EDTA Acid monosodium ferric salt</td>
</tr>
<tr>
<td>Boric acid</td>
</tr>
<tr>
<td>EDTA disodium manganous salt</td>
</tr>
<tr>
<td>EDTA zinc disodium salt</td>
</tr>
</tbody>
</table>
United States - California

Environment
U.S. - California - Proposition 65 - Carcinogens List

- EDTA Acid monosodium ferric salt 15708-41-5 Not Listed
- Boric acid 10043-35-3 Not Listed
- EDTA disodium manganous salt 15375-84-5 Not Listed
- EDTA zinc disodium salt 14025-21-9 Not Listed

Other Information

- Proposition 65 Warning: This product contains trace amounts of materials known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Section 16 - Other Information

Last Revision Date 11/July/2014
Preparation Date 11/July/2014

Disclaimer/Statement of Liability

- The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IF MADE.