



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

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

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.

Exposure Limits/Guidelines		
	Result	ACGIH
Boric acid (10043-35-3)	STELs	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)
	TWAs	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)

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

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

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

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

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 • No data available.

Carcinogenic Effects		
	CAS	NTP
Boric acid	10043-35-3	Evidence of Carcinogenicity

- 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

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	None	Not Regulated	N/A	N/A	N/A
IMO/IMDG	None	Not Regulated	N/A	N/A	N/A
IATA/ICAO	None	Not Regulated	N/A	N/A	N/A

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

Inventory		
Component	CAS	TSCA
EDTA Acid monosodium ferric salt	15708-41-5	Yes
Boric acid	10043-35-3	Yes
EDTA disodium manganous salt	15375-84-5	Yes
EDTA zinc disodium salt	14025-21-9	Yes

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.