Division o ivironmental Health

100 H Street - Suite 100 - Eureka, CA 95501 Phone: 707-445-6215 - Toll Free: 800-963-9241

Fax: 707-441-5699

envhealth@co.humboldt.ca.us

Attachment for Commercial Medical Marijuana (CMM) Clearances/Permits

Applications for CMM Clearances and/or Permits are reviewed by the Division of Environmental Health (DEH) for compliance with regulations intended to protect public health and the environment. Submit this form to the Planning Division with your CMM Permit Application for referral to DEH. If the requested information is already provided in other documents submitted to the Planning Division, provide the title of the document with page and section numbers where it is located.

Name of Business: Veach T			1: Gean Afana	
Site Address:			5914	
APN: 210-191-068	Emai	1: geanfed@	yahoo. com	
General Project Description (co	ultivation, processing, manuf	100 line .	vs year round etc.)	
		_ Planning Applic	ation (APPS#):	
Wastewater (Doc. Title COT	8 Plan	page 7	section A	
 Connected to public se 	wer	Onsite waste	e water system	
 Number of Employees 	average	peak operati	ons:	
 Hours of Operation/shi 	fts per day: average	peak operati	ons:	
 Additional flow from p 	rocessing:GPD	Description	of effluent	
 Describe the proposed disposal. Water Source (Doc. Title C 	and existing wastewater gene			ient)
 Describe and show the 	water source(s) available on	the property and y	what they serve.	
Public Water S			roved Surface	
☐ Well Permit N	ımber(s):	Wat	er/Description	
-			pproved Surface	
Unpermitted W			er/Description	
☐ No Existing W	ater Source	□ Oth a	er:	
☐ Spring	d .: 1			
	ate daily water demand for the culate demand:			——-
Consumer Protection (Doc. T	itle CODS Dlavo	nage 8	section F	
List/Describe any food	production or service:			
• Describe and show on s	site plan, any existing or prop	osed kitchen infra	structure:	

Note: DEH does not currently regulate edible cannabis products. Any other food production may require a Plan Check and permitting.

	lescribe production/cultivation machinery (e.g. generator, tractor, OHV, trimmer, heater
Equip	ment Maintenance/Service (e.g., changing oil, antifreeze, etc.): Onsite or Offsite
	escribe fuel/oil(s) used or produced onsite (e.g. gasoline, diesel, propane, other?). Provints and storage method(s):
	escribe all compressed gases, cleaners, solvents and sanitizers (including, but not limited hold chemicals, bleach and alcohol). Provide amounts and storage method(s):
List/de	escribe fertilizers, soil amendments and biocides (including organic ones). Provide
	ats and storage method/area(s):
P	*Attach Safety Data Sheets (Sl
✓aste/R	
Vaste/R List/de amoun Descri	*Attach Safety Data Sheets (Since the different anticipated solid waste/recycling, composting products and anticipated: be, and show on the site plan, the designated area for storage of recycling and solid wasted.
List/de amoun Descri (contai	*Attach Safety Data Sheets (Size of the control of
List/de amoun Descri (contai	*Attach Safety Data Sheets (Size of Recycling (Doc. Title COPS Plan) page 8 section D escribe the different anticipated solid waste/recycling, composting products and anticipates: be, and show on the site plan, the designated area for storage of recycling and solid wasterest stored outside must be covered): be waste removal plan including frequency and destination
Vaste/R List/de amoun Descri (contai	*Attach Safety Data Sheets (S) Recycling (Doc. Title COPS Plan page 8 section D escribe the different anticipated solid waste/recycling, composting products and anticipated: be, and show on the site plan, the designated area for storage of recycling and solid wasters stored outside must be covered): be waste removal plan including frequency and destination Garbage (1x/week)
List/de amoun Descri (contai	*Attach Safety Data Sheets (Size of Recycling (Doc. Title COPS Plan) page 8 section D escribe the different anticipated solid waste/recycling, composting products and anticipates: be, and show on the site plan, the designated area for storage of recycling and solid wasterest stored outside must be covered): be waste removal plan including frequency and destination

Note: Spent growth medium with no further agricultural use is considered solid waste. It must be stored under cover until it can be hauled to a waste facility.

Material Safety Data Sheet Plant Revolution: ORCA

Last Revision: June 26, 2011 Emergency Phone: (714) 545-5335

Product Identification

Name: ORCA

Chemical description: Beneficial endomycorrhizal propagules and bacteria suspended in distilled water.

Hazardous components: none

Company: Plant Revoultion, Inc. 714 545 5335 www.plant-success.com

Physical/Chemical Characteristics

Boiling point: 213° F

Vapor pressure: Same as water Vapor density: Same as water Evaporation rate: Same as water Melting point: Not applicable Specific gravity: 1.02-1.05

pH: 5.0 - 5.7

Solubility in water: soluble with agitation

Appearance/ Odor: Light beige liquid /Not distinctive

Fire and Explosion Information

Flash point: Not applicable Flammable limits: Not applicable Extinguishing media: Not applicable

Special Fire Fighting Procedures: Does not burn Special Fire and Explosion hazards: Not explosive

Reactivity Data

Stability Conditions: Stable at normal temperatures

Conditions to avoid: Exhaust fans recommended for prolonged periods of fine misting

Incompatibility: None

Hazardous decomposition: Will not occur Hazardous polymerization: Will not occur-

Health Effects/First Aid information

Routes of entry:

Eyes: May irritate on contact, wash out quickly.

Ingestion: Not toxic, but in large amounts can cause upper GI tract disturbance.

Skin: Contact with the skin is not toxic.

Signs/symptoms of exposure: Eye irritation and or sneezing.

Carcinogenicity: Ingredients not listed as carcinogenic in NTP or IARC listings. Not OSHA regulated.

Emergency and First Aid Procedures:

Inhalation:

Eyes: Flush immediately with water for 15 minutes, lift lids. See physician if irritation persists.

Ingestion: For small amounts, drink plenty of water. More than a mouthful should be purged by vomiting,

but only if the victim is conscious. Get medical help.

Skin: Wash gently with mild soap/detergent and flowing water. Wash contaminated clothing. ---

Precautions for Safe Handling and Use

Respiratory protection: If misting occurs use approved respirator to eliminate exposure.

Ventilation: Exhaust fan recommended to control any misting.

Protective gloves/clothing: Rubber or plastic recommended if repeated or prolonged contact expected.

Eye protection: Chemical splash goggles recommended where misting is expected. Safety glasses suffice otherwise.

Work practices: Use good housekeeping practices. Keep containers tightly closed.

Spills: Stop material flow at source. Recover for recycling/salvage if not contaminated by other material.

Waste disposal method: Small quantities may be flushed to drain sewer with water. Material not recyclable should be absorbed and placed in legal landfill.

Precautions in storing and handling: Avoid storage above 120° F. Keep containers tightly closed.

MATERIAL SAFETY DATA SHEET The Amazing Doctor Zymes

Section 1-Chemical Product & Company Identification

Trade Name: The Amazing Doctor Zymes

Product Description: A fermentation product made from a proprietary blend, Citric Acid. Contains no

hazardous chemicals.

Manufacturer's Name: The Amazing Doctor Zymes

Address: 44911 North Highway 101, PMB #148, Laytonville, CA 95454

Phone: 707-984-6094

Section 2-Composition/Information of Ingredients

The Amazing Doctor Zymes is a proprietary composition NOT CONSIDERED HAZARDOUS under the OSHA Hazard Communication Standard CFR Title 29 1910.1200.

Section 3-Physical and Chemical Properties

Vapor Pressure: <1

Vapor Density (air = 1) Unknown

Specific Gravity: 1.000-1.010 @ 77 degrees F. (25 degrees C.)

Solubility in water: Infinitely Soluble

Volatile Organic: Negligible

Content:

Appearance: Orange/brown translucent liquid **PH:** 3.25-4.20@ 77 degrees F. (25 degrees C.)

Evaporation Rate: <1 (water = 1)

Weight: Approximately 8.5 lb. gallon (3.8 kg/liter)

Odor: Mild, slightly sweet

Section 4-Fire Fighting Measures

Flammable Properties: Non-Flammable

Flammable Limits: N/A

Hazardous Combustion: None known

Products:

Extinguishing Method: Water fog, foam, carbon dioxide, dry chemical foam

Fire Fighting Instructions: Wear self-contained breathing apparatus and protective clothing.

Section 5-Hazards Identification & First Aid Measures

HMIS Hazard Ratings

Health-0,1,2 Fire-0 Reactivity-0 Personal Protection-See Section 8

Routes of Entry: Product may enter the body via eye contact, skin contact and ingestion.

Potential Health Effects:

Eye: Eye Contact with product may cause irritation. Avoid eye contact.

Skin: Adverse effect not known to occur. Avoid prolonged skin contact with the product.

Ingestion: Swallowing may cause irritation of mouth and throat. Mild diarrhea may occur if ingested.

First Aid Measures

Eye Contact: Direct contact with eyes may be painful and irritating. Flush eyes immediately with plenty of water. Seek medical attention if irritation occurs.

Skin Contact: Adverse effects are not known to occur. Rinse exposed areas with water.

Ingestion: If swallowed, give 2 glasses of water. Do not induce vomiting. If spontaneous vomiting is inevitable, PREVENT ASPIRATION by keeping victim's head below the knees. Seek immediate medical attention.

Inhalation: Adverse effects not know to occur. Remove to fresh air, if breathing is difficult.

Section 6-Stability and Reactivity

Hazardous Polymerization: Will not occur.

Materials to Avoid: Avoid contact with strong oxidizing and reducing agents.

Hazardous Decomposition Products: N/A

Section 7-Accidential Release Measures

Large Spill: Product is biodegradable and ecologically harmless. Rinse spill with water if desired.

Small Spill: Contain spill. Follow same procedure as above for large spill.

Waste Disposal Method: Flush with water; safe for sewer disposal; harmless to aquatic, plant and

animal life.

Section 8-Exposure Controls, Personal Protection

Personal Protection:

Gloves: Always wear gloves when handling this product in bulk.

Safety Glasses: Always wear eye protection. Goggles or safety glasses with side shields

are recommended when spraying.

Section 9-Handling and Storage

Storage Temperature: Store this product below 120 Degrees F (49 Degrees C), preferably below 75 degrees F (24 Degrees C), in a cool, dry, well ventilated area away from heat, sparks, flame, oxidizers and out of direct sunlight.

General Precautions: Keep container closed when handling and storing.

Section 10-Other Information

Disclaimer: The information contained herein is based upon data available to us and reflects our best professional judgment. However, no warranty is expressed or implied regarding the accuracy of such information or the results obtained from the use thereof. We assume no legal responsibility whatsoever for any damage resulting for reliance upon this information since it is being furnished upon the condition that the person receiving it shall make his or her own determination of the suitability of the material described herein for a particular application of storage situation. Natural Ginesis urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals that are experts in ventilation, toxicology and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; (2) furnish this same information to each of its customers for the product, and (3) request its customers to notify their employees, customers and other users of this product information.



341 Christian Street, Oxford, CT 06478 USA Tel: (203) 267-6061 Fax: (203) 267-6065 www.naturalsourcing.com info@naturalsourcing.com

MATERIAL SAFETY DATA SHEET

ORGANIC NEEM OIL

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name:

ORGANIC NEEM OIL

Product Use:

Personal Care Formulations

Company Name:

Natural Sourcing

Company Address:

341 Christian Street, Oxford, CT 06478, USA

Date Issued:

08/24/2014

Emergency Telephone Number:

Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Ingredients:

Vegetable Oil Triglycerides

100%

Hazardous Components:

None

CAS #:

8002-65-1

3. HAZARDS IDENTIFICATION

Routes of Entry

Eye Contact:

Mild irritation may occur

Skin Contact:

No known hazard

Ingestion:

No known hazard

Inhalation:

No known hazard

4. FIRST AID MEASURES

Eyes:

Flush with plenty of water or eye wash solution for 15 minutes. Get

medical attention if irritation persists.

Skin:

Wash with soap and water- get medical attention if irritation persists.

Ingestion:

Rinse mouth out with water. If irritation persists, seek medical advice.

Inhalation:

N/A

Medical Conditions Generally

Aggravated by Exposure:

None

5. FIRE FIGHTING MEASURES

Flash Point:

>100°C

Extinguishing Media:

Dry Chemical, Carbon Dioxide, Fog, Foam

Do not use direct water jet on burning material. Cool containers exposed to flame with water. Limit the spread of oil. Treat as an oil fire. Avoid

Special Firefighting Procedures:

vapour inhalation. Wear positive pressure self-contained breathing

apparatus & protective clothing.

Unusual Fire & Explosion Hazards:

None Known

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Methods for Cleaning Up:

Absorb onto an inert, absorbent substrate and sweep up. Wash area

with soap and water.

7. HANDLING AND STORAGE

Handling

Safe Handling:

Keep away from strong oxidizing agents, sources of ignition and open

flames.

Storage

Requirements for Storage Areas and

Containers:

Store in a cool, dry location, in a sealed container.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Eve:

Other:

Safety glasses may be worn.

Skin/Body:

Gloves should be worn.

Respiratory:

Not needed under normal conditions of use.

Evaluate need based on application. Slip proof shoes may be worn where spills may occur.

Work/Hygiene Practice:

Normal work and hygiene practices for handling non-hazardous liquid

material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Viscous Liquid

Color:

Brown

Odor:

Characteristic, neem

Flash Point:

>100°C

Specific Gravity (H20 = 1):

0.96

Peroxide Value:

Not Available

Solubility in Water:

Insoluble

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of use. Avoid strong oxidizers, acids and alkali.

Incompatibility (Materials to Avoid):

Conditions to Avoid:

None

Hazardous Decomposition or

Byproducts:

None (thermal decomposition products are H₂O and CO₂)

Hazardous Polymerization:

Will Not Occur

11. TOXICOLOGICAL INFORMATION

Acute Oral:

LD50: >5g/kg [Rat]

Acute Dermal:

LD50: > 2g/kg [Rat]

Inhalation:

LC50: > 0.72mg/Litre [Rat]

Medical Conditions Generally

Aggravated by Exposure:

None

Irritancy:

Skin: Not expected to be an irritant Eyes: Not expected to be an irritant

Page 2 of 3

Mutagenicity:

Non-mutagenic

Neurotoxicity:

None

Carcinogenicity:

Non-carcinogenic

12. ECOLOGICAL INFORMATION

Biodegradation:

Readily biodegradable

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Do not put into sewer lines. Dispose of according to local, state and

federal regulations.

14. TRANSPORT INFORMATION

DOT Classification:

Not Regulated

IMDG: IATA: Not Regulated Not Regulated

15. REGULATORY INFORMATION

Not Available

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

This product is not considered hazardous.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.

Green Cleaner

COMPANY NAME: OLD STAGE GARDEN PRODUCTS

ADDRESS: 1380 BURTON, UNIT H

SALINAS, CA 93901

TELEPHONE #: 831-757-4733

Date: 4/29/14

100000	2.62		-
SA	ctic	n	1

Identification

Trade Name: Green Cleaner

Ingredient Name:

Corn Oil Soybean Oil

Water

CAS	S Number	D.O.T. Number	Exposure Limits
800	1-30-7	None	None
800	1-22-7	None	None
773	2-18-5	None	None
63-6	67-0	None	None
764	7-14-5	None	None
748	7-8-9	None	None
139	3-03-9	None	None

Quillaja Saponaria Section 2

Isopropyl Alcohol Sodium Chloride Magnesium Sulfate

Shipping Data

Hazard Class: None

Reportable Quantity (RQ): None

Labels Required: None

Section 3

Placard: None

C.A.S. Numbers: As Noted Above

D.O.T. Number: None

Physical Data

Hazardous Waste No.: None **EPA Registration No.:** None

141			

Appearance & Odor: Green in color, smells of soap

Boiling Point: 212 degrees Fahrenheit Evaporation Rate: n/a Vapor Pressure: n/a

Specific Gravity: n/a

Water Solubility: Yes

% Volatile by Volume: n/a

Section 4

Fire & Explosion

Flash Point: None

Flammable Limits: None

Autoignition Temperatures: None

Extinguishing Media: None

Fire Fighting Procedures: Use agents appropriate to surrounding materials

to extinguish fire.

Unusual Fire or Explosion Hazards: None

Section 5

Health Data

Effects of Over Exposure:

Eyes: Wash thoroughly with water. Seek medical attention.

Skin: Rinse. Inhalation: None

Ingestion: Drink water. Seek medical attention.

Health Effects: None Eyes: None Skin:

None

Inhalation: None

Ingestion: None

Exposure Standard: None established.

For Health Emergencies Call Your Local Poison Control Center

Section 6

Precautions for Safe Handling & Use

If Material is Released or Spilled: Wash off.

Disposal: If product is contaminated, dispose of in an approved landfill disposal facility in accordance with applicable federal, state, provincial, or local regulations.

Section 7

Additional Information

Flash point (Test Method): not available Autoignition Temperature: not available

Flammable limits (% by volume): Lower: 0

Upper: 0

Hazard Rating: Health: 1 Fire: 0 Reactivity: 0 Specific: 1

Hazard scale: 0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe

DISCLAIMER

The information contained in this MSDS was compiled using the latest and most reliable information available. The information is provided without any warranty, express or implied regarding its correctness or accuracy nor will Old Stage Garden Products assume any liability for any loss or damage arising out of the use of this information including without limitation direct or indirect losses or expenses. To the extent permitted by law, no warranty express or implied regarding the product described herein shall be created by or inferred from any statement or omission from this MSDS. It is solely the responsibility of the user to determine safe conditions for use of this product and to assume liability for any loss, damage or expense whatsoever arising out of the product's improper use.







Material Safety Data Sheet **Dolomite MSDS**

Section 1: Chemical Product and Company Identification

Product Name: Dolomite

Catalog Codes: SLD3109

CAS#: 16389-88-1

RTECS: Not available.

TSCA: TSCA 8(b) inventory: Dolomite

CI#: Not available.

Synonym:

Chemical Name: Dolomite

Chemical Formula: Ca-Mg-C2-O6

Contact Information:

Sciencelab.com, Inc. 14025 Smith Rd.

Houston, Texas 77396

US Sales: 1-800-901-7247

International Sales: 1-281-441-4400

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Dolomite	16389-88-1	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eve Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.

names and sparks.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards:

Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions: Do not breathe dust. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Solid powder.)

Odor: Characteristic.

Taste: Not available.

Molecular Weight: Not available.

Color: Off-white.

pH (1% soln/water): 9 [Basic.]Boiling Point: Not available.Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity:

2.7 @ 25 C 2.9 @ 20 C (Water = 1)

Vapor Pressure: Not applicable.
Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Is not dispersed in cold water, hot water.

Solubility: Insoluble in cold water, hot water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Dust can cause eye irritation. Inhalation: This material is a dust or may produce dust. It may cause respiratory tract irritation. Breathing in small amounts of this material during normal industrial handling is not likely to cause harmful effects. Breathing in large amounts may be harmful. Ingestion: May cause digestive tract irritation. Swallowing small amounts during normal industrial handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Symptoms of exposure to this material through inhalation or ingestion may include: mouth and throat irritation, scratchy feeling, and coughing.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Dolomite

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 05:25 PM

Last Updated: 05/21/2013 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.



AZOMITE® - Powder Material Safety Data Sheet

Section I - Manufacturer

AZOMITE Mineral Products, Inc. 7406 NE 84th Terrace, Kansas City MO 64157, USA

Office: (816) 415-1919 Fax: (816) 415-1925 E-Mail: info@azomite.com

Section II - Hazardous Ingredients/Identity Information

Chemical name: Hydrated Sodium Calcium Aluminosilicate Trade Name: AZOMITE®

Formula: NaK2Ca5A13Si21O706H2O Other elements are present as minor minerals in this natural product

Hazardous ingredients: None known

Section III - Physical/Chemical Characteristics

Boiling Point (°) N/A Sp.Gr.(Water=1) 0.75

Melting Point (°F) >1,000 Solubility in water <1%

Vapor pressure (mm Hg) 0 Odor None

Appearance Tan to pink Taste None

Bulk density / cubic foot 48 pounds

Humidity Product is somewhat hygroscopic. Store in covered area for a maximum of one year in areas with high levels of humidity. In areas with average humidity levels store a maximum of five years.

Section IV - Fire and Explosion Hazard Data

Flash Point N/A Flammable Limits N/A

Section V - Reactivity Data

Stability (pH) Unstable in acid Conditions to avoid Exposure to acid Hazardous polymerization Will not occur

Section VI - Health Hazard Data

Threshold Limit Value – Mineral particles are classified as nuisance dusts by the American Conference of Governmental Industrial Hygienists (ACGIH) in their 1983-1984 TLV List. This material contains some free Silica (Fine silt and sand). Use ACGIH Publication to determine appropriate TLV.

Effect of Overexposure – Repeated inhalation of excessive concentration of any dust, including this material, may lead to lung injury.

Section VII – Precautions for Safe Handling and Use

In case of spill, sweep or scoop up material.

Dispose in a container for non-hazardous materials.

Dusty product; cover bare skin and wear eye and respiratory protection.

Section VIII – Control Measures

Respiratory protection Dust mask Eye protection YES Gloves YES



in accordance with 1907/2006/EC, Article 31

Page: 1/9

Date of issue: 21.02.2013

Version No: 1.1

Revision date: 08.02.2012.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name:

RHIZOTONIC

Synonym(s):

Relevant identified uses of the substance or mixture and uses advised

against:

Root stimulator.

Product

category:

Product Category 12 (PC12 Fertilizers),

Sector of Use 21 (SU21 Consumer uses).

Details of the supplier of the safety data sheet

Manufacturer/supplier:

CANNA B.V. P.O. Box 161

4900 AD Oosterhout The Netherlands

Tel: Fax: +31 (0)162-494843 +31 (0)162-495999

Further information obtainable from:

Contact person: N. Linton

Tel.:

+31 (0) 162-68 00 12

Email:

msds@canna.com

Working hours

(business days): 09:00-17:00.

Emergency telephone number:

The Netherlands: National Poison Information Centre: Belgian Poison Centre:

+31 (0) 30 247 88 88 +32 (0) 70 245 245

Belgium: United Kingdom: UWIC:

+44 (0) 29 204 16388

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification in accordance with Regulation (EC) no. 1272/2008 Void.

Label elements and precautionary statement Hazard pictograms:

Signal word:

Hazard statements:

Precautions:

Classification in accordance with Directive 67/548/EEC or Directive 1999/45/EC Void.

Label elements

Hazard symbols:

Classification of the



in accordance with 1907/2006/EC, Article 31

Page: 2/9

Date of issue: 21.02.2013

Version-No: 1.1

Revision date: 08.02.2012.

Trade name:

RHIZOTONIC

Hazard-determining components for

labelling:

Other hazards

Void.

Results of PBT and vPvB assessment

PBT:

No.

vPvB:

No.

SECTION 3: Composition/information on ingredients

Chemical characterization: Mixture.

Description:

Liquid product based on brown algae, watery solution with polyelectrolyte properties, cation

exchanger.

Preparation contains among other ingredients galacturonic acid (CAS# 685-73-4, EC# 211-682-6),

iodine, trace elements, salts.

Hazardous ingredients

lodine.

CAS#: EC#:

7553-56-2 231-442-4

Index#:

REACH reg.#:

Content (W/W): No data.

Danger:

1999/45/EC:

Xn; R20/22 - N; R50.

1272/2008/EC: Acute Tox. 4; H312, H332 - Aquatic Acute 1; H400.

Full text of each relevant R-, H- and EUH- phrase(s) can be found in section 16.

SECTION 4: First aid measures

Description of first aid measures

General information:

Remove immediately all contaminated clothing.

Consult a physician in case of persistent complaints.

Inhalation:

Remove victim to fresh air.

Skin contact:

Immediately wash off with plenty of water.

Eye contact:

Remove contact lenses, if present, and immediately rinse eyes while holding eyelids open for a sufficient period of time (at least 15 minutes) with lukewarm water. Help the victim with the rinsing process. If symptoms persist after rinsing, consult a physician or an ophthalmologist.

Ingestion:

Rinse mouth and drink plenty of water. Consult a physician if symptoms appear.

Most important symptoms and effects, both acute and delayed Inhalation:

No information available on symptoms. Limited or no immediate danger expected.



in accordance with 1907/2006/EC, Article 31

Page: 3/9

Date of issue: 21.02.2013

Version-No: 1.1

Revision date: 08.02.2012.

Trade name:

RHIZOTONIC

Severe irritation.

Inaestion:

No information available on symptoms. Limited or no immediate danger expected.

Indication of any immediate medical attention and special treatment needed

Symptomatic treatment and supportive therapy as prescribed.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

CO2, extinguishing powder or water jet. Fight larger fires with water spray.

Foam.

Sand.

Adapt extinguishing measures to suit the environment.

Unsuitable extinguishing media:

None.

Special hazards arising from the substance or mixture

None.

Advice for firefighters

Special protective clothing:

Wear self-contained breathing apparatus.

Other information

None.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation.

Wear personal protective equipment.

Environmental precautions

Do not allow large quantities to reach sewage/surface water/groundwater.

Methods and material for containment and cleaning up

Soak up immediately with absorbent material (sand, dry earth).

Recycle, if possible.

Collect in suitable containers for disposal.

Then flush away residue with plenty of water.

Reference to other sections

Information regarding safe handling – see section 7.

Information regarding personal protective equipment – see section 8.

Information regarding disposal - see section 13.



in accordance with 1907/2006/EC, Article 31

Page: 4/9

Date of issue: 21.02.2013

Version-No: 1.1

Revision date: 08.02.2012.

Trade name:

RHIZOTONIC

Handling

Precautions for safe handling:

Open and handle package with care.

Wear suitable protective clothing.

Ventilation is recommended.

Do not eat or drink during use.

Information about fire - and explosion protection:

No specific requirements.

Conditions for safe storage, including any incompatibilities

Storage:

Keep container tightly closed in a well-ventilated area.

Requirements to be met by storerooms and receptacles:

Preferably keep in the original packaging.

Keep in a dark place.

Store in a frost-free environment.

Suitable packaging material: Polyethylene, stainless steel.

Suitable material for tanks and pipelines: No data.

Unsuitable material for tanks and pipe conduits: No data.

Information about storage in one common storage facility:

Install partitions in the drip tray to prevent acidic and alkaline fertilisers from coming into contact with one other.

Store separately from strong acids.

Further information about storage conditions:

Recommended storage temperature 10 - 30 °C.

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

No data.

Exposure controls

Personal protective equipment:

Remove immediately all contaminated clothing.

Avoid contact with the eyes.

General protective and hygienic measures:

Keep away from foodstuffs and beverages.

Do not eat, drink or smoke when using this product.

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Not required with normal ventilation, respiratory protection in case of insufficient ventilation.

Hand protection:

Safety gloves: use is recommended but not mandatory.

Eye protection:

Use close-fitting safety goggles with risk of spatter.



Body protection:



in accordance with 1907/2006/EC, Article 31

Page: 5/9

Date of issue: 21.02.2013 Version-No: 1.1 Revision date: 08.02.2012.

Trade name: RHIZOTONIC

No data.

Environmental exposure controls:

No specific requirements.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance

Form: Liquid. Colour: Brown. Odour: Salty.

Odour threshold: Not determined. pH-value: < 11 (undiluted).

Change in condition

Melting point/melting range: Not determined. Boiling point/boiling range: Not determined. Flash point: > 93 °C.

Flammability (solid, gas): Not applicable. **Auto-ignition temperature:** Not determined. Explosion hazard: Not determined.

Explosive limits

Lower: Not determined. Upper: Not determined. Vapour pressure at 20°C: Not determined.

Relative density: Approx. 1.000 (water = 1). Vapour density: Not determined. Not determined.

Evaporation rate: Solubility in/miscibility with

water:

Partition coefficient:

n-octanol/water: Not determined.

Viscosity Dynamic at 20°C: Not determined.

Kinematic: Not determined.

Other information No further relevant information available.

Fully.

SECTION 10: Stability and reactivity

Reactivity

Chemical stability:

The product is stable if stored and handled as prescribed.

Thermal decomposition/Conditions to be avoided:

The product is stable if used as prescribed. Avoid storing at high temperatures (> 35 °C) to prevent degradation of the material or pressure build-up. Avoid low temperatures (< 10 °C) to prevent crystallization from occurring. Material is susceptible to frost.

Possibility of hazardous reactions

No data.



in accordance with 1907/2006/EC, Article 31

Page: 6/9

Date of issue: 21.02.2013

Version-No: 1.1

Revision date: 08.02.2012.

Trade name:

RHIZOTONIC

Incompatible materials

No data.

Hazardous decomposition products

No hazardous decomposition products are formed if stored under normal conditions.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity from the components:

No data.

The following health risk assessment is based on an assessment of the various ingredients in the product.

Primary irritant effect:

on the skin:

No further relevant information available.

on the eve:

No further relevant information available.

Germ cell mutagenicity:

Not classified.

Reproductive and developmental toxicity:

Not classified.

Sensitisation:

No sensitising effects known.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Not classified.

Other information:

No further relevant information available.

SECTION 12: Ecological information

Toxicology information

Ecotoxicity from the components:

No data.

The following ecological risk assessment is based on an assessment of the various ingredients in the product.

Persistence and degradability

Expected to be biodegradable.

Behaviour in environmental compartments

Bioaccumulative potential:

Bioaccumulation in organisms is not expected.

Mobility in soil:

No further relevant information available.



in accordance with 1907/2006/EC, Article 31

Page: 7/9

Date of issue: 21.02.2013

Version-No: 1.1

Revision date: 08.02.2012.

Trade name:

RHIZOTONIC

Water hazard class N.W.G (German regulation) (Self-assessment): not hazardous to water. Do not discharge undiluted product into groundwater or surface water.

Results of PBT and vPvB assessment

The mixture does not meet all of the assessment criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

Other adverse effects

No data.

SECTION 13: Disposal considerations

Waste treatment methods

Recommendation:

May be brought to a supervised incineration plant in compliance with local regulations.

EC Regulation for Disposal of Waste (EWC):

06 10 01 WASTES FROM INORGANIC CHEMICAL PROCESSES, waste from nitrogen chemical processes and fertilizer manufacture.

Uncleaned packaging

Maritime transport IMDG

IMDG-class: UN number: Label:

Packing group: EMS number: Marine pollutant:

Recommendation:

Disposal must be made according to official regulations. Empty the packaging with care. Do not contaminate soil, water or environment with the waste container. Comply with local regulations with regard to the recovery or disposal of waste.

SECTION 14: Transport information

Land transport ADR/RID (cross-border) ADR/GGVSEB class: Not a dangerous good according to the transport regulations. Hazard identification number: **UN** number: Packing group: Label: Special marking: Proper shipping name from the **UN Model Regulations: Tunnel restriction code:** Inland shipping ADN/ADR ADN/R-class: **UN number:** Subsidiary risk **Environmental hazards:** CMR properties: Buoyancy:



in accordance with 1907/2006/EC, Article 31

Page: 8/9

Date of issue: 21.02.2013

Version-No: 1.1

Revision date: 08.02.2012.

Trade name:

RHIZOTONIC

Air transport ICAO-TI and IATA-DGR

ICAO/IATA-class:

-

UN number:

-

Label:

Packing group: Proper technical name:

Environmental hazards

Nο.

Special precautions for user

None.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No further relevant information available.

SECTION 15: Regulatory information

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

National regulations:

EU regulations and directives which affect this mixture (not yet directly or indirectly mentioned):

Directive 89/686/EEC

Personal protective equipment.

Directive 98/24/EC

Risks related to chemical agents at work.

Regulation 2003/2003/EC Concerning fertilisers.

Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

This information is based on the current state of our knowledge. It should not be construed as any guarantee of product characteristics, nor does it establish a legally valid contractual relationship.

List of relevant R-, H- and EUH-phrases from sections 2 and 3

R20/22

Harmful by inhalation and if swallowed.

R50

Very toxic to aquatic organisms.

H312

Harmful in contact with skin.

H332

Harmful if inhaled.

H400

Very toxic to aquatic life.

Document history

Printed on:

3 April 2013.

Previous edition:

08.02.2012.

Version:

1.1.

Change:

Ingredient name.

Abbreviations and acronyms:



Material Safety Data Sheet in accordance with 1907/2006/EC, Article 31 Page: 9/9

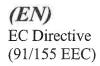
Date of issue: 21.02.2013

Version-No: 1.1

Revision date: 08.02.2012.

Trade name: **RHIZOTONIC**

IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
P:	Marine Pollutant
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC50:	Half maximal effective concentration
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
OEL:	Occupational Exposure Limit
NOEC:	No Observed Effect Concentration
vPvB:	Very Persistent and Very Bioaccumulative
PBT:	Persistent, Bioaccumulative and Toxic substance
EWC:	European Waste Catalogue
TWA:	Time-Weighted Average, limit value pertaining to the MAC value
DNEL:	Derived No-Effect Level
DMEL:	Derived Minimal Effect Level
PNEC:	Predicted No-Effect Concentration



MATERIAL SAFETY DATA SHEET



House&Garden®Roots Excelerator

1. Identification of the Product and the Company

Product Name

House&Garden® Roots Excelerator

Distributor

House&Garden. B.V.

Postbus 1032, NL-1300 BA Almere

Emergency Phone:

+31 (0)610 939412

2. Composition / Information on Ingredients

Growth stimulator guaranteed analysis.

Total Nitrogen (N) 0.6% (0.6% Ammoniacal Nitrogen; available Phosphate (P205) 0.2 %; Soluble Potash (K20

Non-plant food ingredients.

Derived from: Ammonium Nitrate, Potassium Hydroxide,

3. Hazards

Hazardous Ingredients:NoneHealth Hazards:NoneSafety Hazards:NoneEnvironmental Hazards:None

4. First Aid Measures

Skin Eyes : Rinse thoroughly, seek medical advice if symptoms occur. : Rinse thoroughly, seek medical advice if symptoms occur.

Ingestion

: Rinse mouth thoroughly. If swallowed, give plenty of water. Do not induce

vomiting.

Inhalation

: None

5. Fire Fighting Measures

Extinguishing Media

: The product itself is not combustible; in case of fire in

immediate environment:

all extinguishing media are permitted; preferred

media are water, foam, ...

Specific Hazards

: No particular measures required.

6. Accidental Release Measures

Personal precautions:

No particular measures required.

Environmental precautions and disposal:

Product may be discharged to sewer; read local regulations.



MATERIAL SAFETY DATA SHEET



House&Garden®Roots Excelerator

7. Handling & Storage

Handling:

No particular measures required.

Store at a temperature between 5 and 30 degrees Centigrade.

Storage:

Storage conditions: No particular safety measures required.

Store in well-ventilated, dry and frost-free area.

8. Exposure Control/Personal Protection

MAC value: Not determined

Personal Protection:

Skin

: No special precautions required: Goggles are recommended.

Eyes

Mildly alkaline, may cause irritation of eyes or skin.

Inhalation

: No special precautions required

No special protective clothing required. Provide eye wash stations.

Handle the product in accordance with normal professional industrial operations. Prevent direct contact

with food preparation tables. After contact, immediately clean surfaces with a disinfectant.

9. Physical & Chemical Properties

Appearance

: Black fluid.

Odour

: Herbaceous, strongly fragrant

pН

: at 100g/l: 7-8 at

Crystallization temperature : <

Bulk density

1.10-1.15 kg/dm3

Viscosity:

Solubility in water: fully soluble

10. Stability & Reactivity

The product is stable under normal conditions.

Conditions & Materials:

Frost may cause separation of ingredients.

Conditions to avoid:

Reducing agents and combustible materials.

Materials to avoid:

Hazardous Decomposition Products: Unknown.

11. Toxicological Information

Acute oral LD50

: Unknown

Acute dermal LD50

: Unknown

Non-poisonous, may cause irritation in allergic persons. Symptoms: red eyes and swellings around the eyes, coughing, irritated throat and shortness of breath.

12. Ecological information

Ecological Toxicity: Permitted in ecological production

Ecological Properties: Growth Stimulator: high concentrations may cause plant burns.



MATERIAL SAFETY DATA SHEET



House& Garden®Roots Excelerator

13. Disposal Information

<u>Remainders</u>: Use as organic fertilizer. Product residues may be added to compost in small quantities. <u>Container</u>: Fully recyclable.

Recommended cleaning agents: Rinse thoroughly with water. Decompose rinse water as fertilizer.

General measures: Read instructions before use.

14. Transport Information

EC Directive (91/155 EEC)

Not hazardous for transport under UN, ADR/RID/IMO Shipping information: House & Garden & Roots Excelerator

15. Regulatory Information

Labelling in compliance with EC Directives (20092/91.)

R phrase: None S phrase: None

16. Other Information

The information provided in this Material Safety Data Sheet is to our best knowledge and belief, accurate and reliable as of the date compiled. However, no warranty or guarantee is made in this respect. It remains the user's responsibility to ensure the suitability and completeness of this information for a particular application. House&Garden B.V. does not accept liability for any damage or loss that may arise from the use of this information.

Reference: House&Garden.B.VI/WH Date of last issue: January 2008

Revision: 9



Safety Data Sheet

Verde 16-1-2

1. Product and company identification:

Product name:

Humboldt Nutrients

Material uses:

Plant nutrient

Supplier/Manufacturer:

Humboldt Nutrients

109 Calle Propano #B, Paso Robles, CA 93446

Tel: (888) 420-7770

Fax: (866) 812-9589

In case of emergency:

CHEMTREC, U.S.: 1-800-424-9300

International: +1-703-527-3887

2. Hazards identification:

Emergency overview

Physical state:

Liquid

Color: Odor: Reddish Earthy scent

Precautionary measures:

Store in a cool dry area away from children, food, and feed products.

Protect from freezing. Avoid contamination and spills. Avoid contact with

eyes, skin, and clothing. Avoid inhalation. Wash hands thoroughly

before eating, or smoking.

Routes of entry:

Skin, eyes, inhalation, ingestion.

Potential acute health effects

Inhalation:

Minor irritation to the respiratory system.

Ingestion:

May cause abdominal pain, nausea, vomiting, diarrhea

Eyes:

Minor irritation to eyes

Skin:

Minor irritation to skin

Potential chronic health effects

Chronic effects:

No known significant effects

Carcinogenicity:

No known significant effects

Mutagenicity: Teratogenicity:

No known significant effects No known significant effects

Developmental effects:

No known significant effects

Fertility effects:

No known significant effects

Over-exposure signs/symptoms

Inhalation:

Respiratory tract irritation, coughing

Ingestion:

No specific data

Skin:

Irritation, redness

Eyes:

Pain or irritation, watering, redness

3. Composition/information on ingredients

Humboldt Nutrients Verde 16-1-2 pg. 1 SDS updated: 2/2/2015



Safety Data Sheet

Verde 16-1-2

Name	%	CAS Number	
Urea	10-20	57-13-6	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

4. First aid measures

Inhalation: Move person to ventilated or outside air area.

Ingestion: Administer water to conscious person only. Seek medical attention.

Skin: Wash area with warm soapy water

Eyes: Flush eyes thoroughly with water removing any vision correction

implements prior to flushing. Seek medical attention.

5. Fire fighting measures

Flammability of the product: This product may increase the risk of fire and may aid combustion. In a

fire, or if heated, a pressure increase could occur causing the container

to burst.

Extinguishing media

Suitable: Use extinguishing media suitable for surrounding fire

Not suitable: Unknown
Flash point: Does not flash

Flammable limits: N/A
Hazardous decomposition products: N/A

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or without suitable

training. Clear surrounding areas. Keep unnecessary personnel from entering. Avoid touching or walking through spilled product. Shut off all ignition sources. No flares, smoking, or flames in hazard area. Avoid breathing vapor or mist. Wear appropriate personal protection gear including wearing gloves, safety glasses. Use respirator if necessary.

Environmental precautions:

Avoid dispersal into waterways, drains, and sewers.

Methods for cleaning up

Small spill: Stop leak if possible and/or clear containers from spill area. Dilute with

water and mop up or use proper drying agent to absorb liquid. Do not use sawdust as it could turn into a fire hazard when dry. Dispose in

proper container.

Large Spill: Stop leak if possible and/or clear containers from spill area. Prevent

entry into waterways, runoff, sewers, or basements. Contain and collect

Humboldt Nutrients Verde 16-1-2 pg. 2 SDS updated: 2/2/2015



Safety Data Sheet

Verde 16-1-2

spillage with absorbent, non-combustible material i.e. sand, earth, vermiculite or diatomaceous earth and place in proper container for disposal. Do not use sawdust as it could turn into a fire hazard when dry.

7. Handling and storage

Handling: Eating, drinking, and smoking should be prohibited in areas where

products or materials are handled, stored, or processed. Employees should wash hands and face after handling and prior to eating, drinking or smoking. Do not get in eyes. Do not inhale vapor or mist. Do not ingest. Avoid direct contact with skin and clothing. Keep in the original container or an approved alternative made from a compatible material.

Keep containers sealed and upright when not in use.

Storage: Store in a cool, dry area away from children, food, and feed products.

Keep out of direct sunlight. Protect from freezing. Avoid contamination and spills. Keep containers tightly sealed and upright to prevent leaking

or spills. All product and materials must be stored in well labeled containers. Ideal temperature storage conditions are above 40°F and

below 80°F.

8. Exposure controls/personal protection

Recommended monitoring: If this product contains ingredients with exposure limits, personal,

workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures

and/or the necessity to use respiratory protective equipment.

Engineering measures: Use only with adequate ventilation. If user operations generate dust,

fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits

Hygiene measures: Wash hands, forearms and face thoroughly after handling materials

and/or products prior to eating, smoking, using the bathroom and at the end of the working period. Appropriate procedures should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Be sure that eyewash stations and safety showers are

operational and close to the workstation location.

Personal protection

Respiratory: Avoid prolonged exposure to vapors, mist, fumes. If necessary, wear a

properly-fitted respirator. Respirator selection must be based on expected exposure levels, the hazard of the product, and the working

capabilities of the chosen respirator.

Humboldt Nutrients Verde 16-1-2 pg. 3 SDS updated: 2/2/2015



Safety Data Sheet

Verde 16-1-2

Hands: Gloves should be worn when handling any chemical or product

substances if risk assessment deems that it is necessary. Otherwise, thoroughly washing hands after handling containers or substances is

necessary.

Eyes: Safety eyewear should be worn when risk assessment deems necessary

to avoid contact by liquid product splash, mist, or product dust.

9. Physical & chemical properties

Physical state: Liquid

Color: Reddish

Odor: Earthy scent

pH: 5.0 Boiling point: N/A

Evaporation rate: Not detectable

Vapor density (Air=1): N/A Specific gravity: N/A

Water solubility: Complete, Miscible

10. Stability & reactivity

Stability: Stable Incompatibility: N/A Conditions to avoid: N/A

Hazardous polymerization: Will not occur Hazardous decomposition products: Not known

11. Toxicological information

Route of entry: Eyes, ingestion, inhalation, skin.

Effects of acute exposure: Non-toxic

Chronic toxicity: No data available

Reproductive toxicity: None Carcinogenicity: N/A

Irritation/Corrosion

Skin: No data available
Eyes: No data available
Respiratory: No data available

Sensitizer

Skin: No data available Respiratory: No data available

Humboldt Nutrients Verde 16-1-2 pg. 4 SDS updated: 2/2/2015



Safety Data Sheet

Verde 16-1-2

Carcinogenicity
Mutagenicity:
Teratogenicity:

No data available No data available

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.





Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier:

FoxFarm Cha Ching

SECTION 1: IDENTIFICATION

Product Identifier: FoxFarm Cha Ching

Product Description: Concentrated soluble blooming fertilizer

Manufacturer: United Compost & Organics

dba FoxFarm Soil & Fertilizer Company

PO Box 787, Arcata, CA 95518

1900 Bendixsen Street, Samoa, CA 95564

foxfarm@foxfarmfertilizer.com

(800) 436-9327 or (707) 443-4369 for product information

www.foxfarmfertilizer.com

Emergency Telephone Number: (707) 443-4369, M-F 8:30am-5:00pm PST.

SECTION 2: HAZARD(S) IDENTIFICATION

Classifications:

Flammability – Category 0 (intrinsically noncombustible)

Health – Category 1 (irritation or minor reversible injury possible)

Instability/Reactivity - Category 0 (stable)

Pictograms:



Signal Word:

Warning

Hazard Statements:

H303 May be harmful if swallowed

H315 May cause skin irritation

H320 May cause eye irritation

Precautionary Statements:

P102 Keep out of reach of children

P261 Avoid breathing mist or spray

P262 Do not get in eyes, on skin, or on clothing

P264 Wash skin thoroughly after handling

P280 Wear protective gloves, eye protection, and face protection

Storage:

Avoid overheating or freezing.





Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier:

FoxFarm Cha Ching

Disposal:

Dispose of contents/containers in accordance with federal, state, and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS				
Chemical Characterization: M	1ixture			
Description: Mixture of subst	ances listed below with nor	nhazardous additions		
Component CAS Number %				
Monopotassium phosphate	7778-77-0	Trade secret		
Monoammonium phosphate	7722-76-1	Trade secret		
Potassium nitrate	7757-79-1	Trade secret		
Ammonium nitrate	6484-52-2	Trade secret		
Iron EDTA	15275-07-7	Trade secret		
Manganese EDTA	55448-20-9	Trade secret		
Zinc EDTA	14025-21-9	Trade secret		
Copper EDTA	14025-15-1	Trade secret		
EDTA	60-00-4	Trade secret		
Sodium borate	1330-43-4	Trade secret		
Kelp	n/a	Trade secret		

SECTION 4: FIRST-AID MEASURES

Inhalation:

If dust causes irritation or distress, remove to fresh air.

Skin Contact:

Thoroughly wash off skin with water. Wash contaminated clothing before re-use.

Eye Contact:

Immediately flush eyes with large amounts of water. Remove contact lenses.

Ingestion:

If swallowed, drink plenty of water. Do not induce vomiting. Call a Poison Center or consult a physician immediately.

Notes to Physician:

Symptoms: May cause irritation, redness, and/or burning to the eyes. Prolonged exposure to the eyes may cause conjunctivitis or serious eye damage. Dermal exposure may cause irritation, redness, and/or burning. Prolonged exposure to the skin may cause dermatitis. Ingestion may cause abdominal cramps, nausea, vomiting, and/or diarrhea. Inhalation may cause upper respiratory tract irritation.





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier: FoxFarm Cha Ching

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Material is essentially non-combustible. Use same extinguishing media for surrounding materials.

Specific Hazards During Fire Fighting:

Hazardous combustion products: Oxides of nitrogen, oxides of phosphorus, oxides of potassium, ammonia.

Special Protective Equipment for Fire Fighters:

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

Further Information:

Remain upwind of the fire. Avoid breathing dusts or fumes from burning material. Water spray onto molten material may cause spattering.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin and eyes. Avoid inhaling dust. Keep unprotected persons away. Spilled product creates a slippery surface when wet.

Protective Equipment:

Wear gloves and face protection as necessary.

Environmental Precautions:

Avoid discharge into the environment. After containment and cleanup, flush and dilute spilled area with water.

Methods of Containment and Cleanup

Use appropriate containment methods to prevent spreading. Sweep, scoop or shovel spilled material into an appropriate container. Avoid generating dust. Flush spilled area with water.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Wear personal protective equipment as necessary. Emergency eye wash stations should be in the near proximity to operations presenting a potential eye exposure. Avoid skin exposure.

Conditions for Safe Storage, Including Incompatibilities:





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier: FoxFarm Cha Ching

Incompatible Materials: Strong acids or bases, halogens, chlorinated compounds, hydrogen peroxides.

Store at ambient temperature in a dry location.

Further Information:

Use good personal hygiene practices. After handling material wash hands before eating, drinking, smoking, or using toilet facilities. Keep away from foodstuffs and beverages.

Section 8: Exposure Controls / Personal Protection					
Components with Occupational Exposure Limits (lists that were valid at creation used as basis):					
Component CAS Number Type Value					
Monoammonium phosphate	7722-76-1	ACGIH – TLV	5mg/m³, 8 hrs. (dust)		

Personal Protective Equipment (PPE)

Engineering Measures:

No further relevant information available.

Eye Protection:

Safety glasses or goggles are recommended where there is a possibility of dust generation. Ensure that eyewash stations are close to the workstation.

Hand Protection:

To prevent skin contact wear water resistant gloves, such as those constructed of nitrile.

Skin and Body Protection:

Wear protective clothing to prevent skin contact. Promptly remove contaminated clothing and launder before re-use.

Respiratory Protection:

No special equipment required. Avoid creating dust through proper handling. Avoid breathing dust.

General Protective and Hygienic Practices:

Emergency eye wash capability should be available in the near proximity to operations presenting a potential eye exposure. Avoid repeated and/or prolonged skin exposure. Use good personal hygiene practices. After handling material wash hands before eating, drinking, smoking, or using toilet facilities. Keep away from foodstuffs and beverages.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow granular





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier: FoxFarm Cha Ching

Odor: Earthy, slightly sweet

Odor Threshold: Not determined

pH: 4.0-6.0 (5% aqueous solution)

Specific Gravity (Relative Density): Not determined.

Solubility: Soluble

Melting Point/Freezing Point: Not determined.

Initial Boiling Point and Boiling Range: Not determined.

Danger of Explosion: Material does not present an explosion hazard.

Flammability: Not determined.

Flash Point: Not determined.

Auto-Ignition Temperature: Material is not self-igniting.

Decomposition Temperature: Not determined.

Vapor Pressure: Not determined.

Vapor Density: Not determined.

Evaporation Rate: Not determined.

Viscosity: Not determined.

Partition Coefficient (n-octanol/water): Not determined.

SECTION 10: STABILITY AND REACTIVITIY

Reactivity: No further relevant information.

Chemical Stability: Material is stable under normal conditions. Decomposition upon sufficient

heating.

Possibility of Hazardous Reactions: No dangerous reactions known.





OSHA HazCom Standard 29 CFR 1910.1200(a), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier: FoxFarm Cha Ching

Hazardous Decomposition: Oxides of nitrogen, oxides of phosphorus, oxides of potassium,

ammonia.

Conditions to Avoid: Extreme temperatures, open flames.

Incompatible Materials: Strong acids and bases, halogens, chlorinated compounds, hydrogen

peroxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Relevant Numerical Measure of Toxicity:

Monopotassium phosphate: LD₅₀ (oral, rat) - 7,100mg/kg; LD₅₀ (dermal, rabbit) -

7,940mg/kg

Monoammonium phosphate: LD₅₀ (oral, rat) - >2,000mg/kg; LD₅₀ (dermal, rabbit) -

>5,000mg/kg

Ammonium nitrate: LD_{50} (oral, rat) - 2,217mg/kg; LD_{50} (inhalation, rat) - >88.8mg/L(4h)

Potassium nitrate: LD_{50} (oral, rat) ->2,000mg/kg; LD_{50} (dermal, rat) ->5,000mg/kg; LD_{50}

(inhalation, rat) - >0.527mg/L(4h)

Copper EDTA: LD₅₀ (oral, rat) - >2,000mg/kg

Likely Routes of Exposure:

Eye contact, skin contact, inhalation. Ingestion is not expected to be a likely route of exposure through normal product use.

Immediate Exposure Effects:

Eye contact: May cause irritation, redness, and/or burning.

Skin contact: May cause irritation, redness, and/or burning.

Inhalation: May cause upper respiratory irritation.

Ingestion: Harmful if swallowed. May cause stomach pain. May cause irritation to mouth,

throat and stomach.

Delayed Exposure Effects:

No delayed or chronic effects from short- or long-term exposures are known.

Symptoms of Exposure:

Inhalation: May cause upper respiratory irritation or pulmonary effects.

Skin and/or Eye contact: May cause irritation, redness, and/or burning.

Ingestion: May cause irritation to mouth and throat. May cause stomach pain.

Chronic Toxicity

Relevant Numerical Measure of Toxicity:

No delayed or chronic effects from short- or long-term exposures are known.

Likely Routes of Exposure:

Eye contact, skin contact, inhalation. Ingestion is not expected to be a likely route of exposure through normal product use.





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier:

FoxFarm Cha Ching

Immediate Exposure Effects:

Eye contact: May cause irritation, redness, and/or burning. Skin contact: May cause irritation, redness, and/or burning.

Inhalation: May cause upper respiratory irritation.

Ingestion: Harmful if swallowed. May cause stomach pain. May cause irritation to mouth,

throat and stomach.

Delayed Exposure Effects:

No delayed or chronic effects from short- or long-term exposures are known.

Symptoms of Exposure:

Inhalation: May cause upper respiratory irritation or pulmonary effects. Skin and/or Eye contact: May cause irritation, redness, and/or burning.

Ingestion: May cause irritation to mouth and throat. May cause stomach pain.

Carcinogenic Categories

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OHSA (Occupational Health & Safety Administration):

None of the ingredients are listed.

Section 12: Ecological Information

General Notes:

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under federal and state regulations. Large quantities of fertilizer released into the environment may kill aquatic plants and animals and cause algae blooms if bodies of water are contaminated.

Section 13: Disposal Considerations

Disposal:

Dispose of container and unused contents in accordance with federal, state and local requirements.

Further Information:

Do not dispose of in sewage system.

SECTION 14: TRANSPORT INFORMATION

General Notes:





OSHA HazCom Standard 29 CFR 1910.1200(a), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier: FoxFarm Cha Ching

No further relevant information available.

SECTION 15: REGULATORY INFORMATION

OSHA Hazards

None of the ingredients are listed.

TSCA (Toxic Substances Control Act)

Monopotassium phosphate, monoammonium phosphate, ammonium nitrate, and potassium nitrate are listed in the TSCA inventory.

California Prop. 65

None of the ingredients are listed.

SARA Hazards

This product contains substances considered, under applicable definitions, to meet the following categories: Acute, reactive.

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value Established by ACGIH)

Monoammonium phosphate 7722-76-1, 5 mg/m³

NIOSH (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

SECTION 16: OTHER INFORMATION

The information and recommendations provided in this Safety Data Sheet are accurate to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship.





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier:

FoxFarm Beastie Bloomz

SECTION 1: IDENTIFICATION

Product Identifier: FoxFarm Beastie Bloomz

Product Description: Concentrated soluble blooming fertilizer

Manufacturer: United Compost & Organics

dba FoxFarm Soil & Fertilizer Company

PO Box 787, Arcata, CA 95518

1900 Bendixsen Street, Samoa, CA 95564

foxfarm@foxfarmfertilizer.com

(800) 436-9327 or (707) 443-4369 for product information

www.foxfarmfertilizer.com

Emergency Telephone Number: (707) 443-4369, M-F 8:30am-5:00pm PST.

Section 2: Hazard(s) Identification

Classifications:

Flammability – Category 0 (intrinsically noncombustible)

Health – Category 1 (irritation or minor reversible injury possible)

Instability/Reactivity – Category 0 (stable)

Pictograms:



Signal Word:

Warning

Hazard Statements:

H303 May be harmful if swallowed

H315 May cause skin irritation

H320 May cause eye irritation

Precautionary Statements:

P102 Keep out of reach of children

P261 Avoid breathing mist or spray

P262 Do not get in eyes, on skin, or on clothing

P264 Wash skin thoroughly after handling

P280 Wear protective gloves, eye protection, and face protection

Storage:

Avoid overheating or freezing.





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier: Fox

FoxFarm Beastie Bloomz

Disposal:

Dispose of contents/containers in accordance with federal, state, and local regulations.

Section 3: Composition/Information on Ingredients				
Chemical Characterization: Mixture				
Description: Mixture of substances listed below with nonhazardous additions				
Component CAS Number %				
Monopotassium phosphate	7778-77-0	Trade secret		
Iron EDTA	15275-07-7	Trade secret		
Manganese EDTA	55448-20-9	Trade secret		
Zinc EDTA	14025-21-9	Trade secret		
Copper EDTA	14025-15-1	Trade secret		
EDTA	60-00-4	Trade secret		
Kelp	n/a	Trade secret		

SECTION 4: FIRST-AID MEASURES

Inhalation:

If dust causes irritation or distress, remove to fresh air.

Skin Contact:

Thoroughly wash off skin with water. Wash contaminated clothing before re-use.

Eye Contact:

Immediately flush eyes with large amounts of water. Remove contact lenses.

Ingestion:

If swallowed, drink plenty of water. Do not induce vomiting. Call a Poison Center or consult a physician immediately.

Notes to Physician:

Symptoms: May cause irritation, redness, and/or burning to the eyes. Prolonged exposure to the eyes may cause conjunctivitis or serious eye damage. Dermal exposure may cause irritation, redness, and/or burning. Prolonged exposure to the skin may cause dermatitis. Ingestion may cause abdominal cramps, nausea, vomiting, and/or diarrhea. Inhalation may cause upper respiratory tract irritation.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:





OSHA HazCom Standard 29 CFR 1910.1200(a), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier: FoxFarm Beastie Bloomz

Material is essentially non-combustible. Use same extinguishing media for surrounding materials.

Specific Hazards During Fire Fighting:

Hazardous combustion products: Oxides of phosphorus, oxides of potassium.

Special Protective Equipment for Fire Fighters:

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

Further Information:

Remain upwind of the fire. Avoid breathing dusts or fumes from burning material. Water spray onto molten material may cause spattering.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin and eyes. Avoid inhaling dust. Keep unprotected persons away. Spilled product creates a slippery surface when wet.

Protective Equipment:

Wear gloves and face protection as necessary.

Environmental Precautions:

Avoid discharge into the environment. After containment and cleanup, flush and dilute spilled area with water.

Methods of Containment and Cleanup

Use appropriate containment methods to prevent spreading. Sweep, scoop or shovel spilled material into an appropriate container. Avoid generating dust. Flush spilled area with water.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Wear personal protective equipment as necessary. Emergency eye wash stations should be in the near proximity to operations presenting a potential eye exposure. Avoid skin exposure.

Conditions for Safe Storage, Including Incompatibilities:

Incompatible Materials: Strong acids or bases, halogens, chlorinated compounds, hydrogen peroxides.

Store at ambient temperature in a dry location.





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier:

FoxFarm Beastie Bloomz

Further Information:

Use good personal hygiene practices. After handling material wash hands before eating, drinking, smoking, or using toilet facilities. Keep away from foodstuffs and beverages.

Section 8: Exposure Controls / Personal Protection						
Components with Occupational Exposure Limits (lists that were valid at creation used as basis):						
Component CAS Number Type Value						
n/a	71-					

Personal Protective Equipment (PPE)

Engineering Measures:

No further relevant information available.

Eye Protection:

Safety glasses or goggles are recommended where there is a possibility dust generation. Ensure that eyewash stations are close to the workstation.

Hand Protection:

To prevent skin contact wear water resistant gloves, such as those constructed of nitrile.

Skin and Body Protection:

Wear protective clothing to prevent skin contact. Promptly remove contaminated clothing and launder before re-use.

Respiratory Protection:

No special equipment required. Avoid creating dust through proper handling. Avoid breathing dust.

General Protective and Hygienic Practices:

Emergency eye wash capability should be available in the near proximity to operations presenting a potential eye exposure. Avoid repeated and/or prolonged skin exposure. Use good personal hygiene practices. After handling material wash hands before eating, drinking, smoking, or using toilet facilities. Keep away from foodstuffs and beverages.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green granular

Odor: Earthy, slightly sweet

Odor Threshold: Not determined



Revision Date: 12/31/2015



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Product Identifier:

FoxFarm Beastie Bloomz

pH: 4.0-6.0 (5% aqueous solution)

Specific Gravity (Relative Density): Not determined.

Solubility: Soluble

Melting Point/Freezing Point: Not determined.

Initial Boiling Point and Boiling Range: Not determined.

Danger of Explosion: Material does not present an explosion hazard.

Flammability: Not determined.

Flash Point: Not determined.

Auto-Ignition Temperature: Material is not self-igniting.

Decomposition Temperature: Not determined.

Vapor Pressure: Not determined.

Vapor Density: Not determined.

Evaporation Rate: Not determined.

Viscosity: Not determined.

Partition Coefficient (n-octanol/water): Not determined.

SECTION 10: STABILITY AND REACTIVITIY

Reactivity: No further relevant information.

Material is stable under normal conditions. Decomposition upon sufficient **Chemical Stability:**

heating.

Possibility of Hazardous Reactions: No dangerous reactions known.

Hazardous Decomposition: Oxides of phosphorus, oxides of potassium.

Conditions to Avoid: Extreme temperatures, open flames.



Revision Date: 12/31/2015



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Product Identifier:

FoxFarm Beastie Bloomz

Incompatible Materials: Strong acids and bases, halogens, chlorinated compounds, hydrogen

peroxides.

Section 11: Toxicological Information

Acute Toxicity

Relevant Numerical Measure of Toxicity:

Monopotassium phosphate: LD₅₀ (oral, rat) - 7,100mg/kg; LD₅₀ (dermal, rabbit) -

7,940mg/kg;

Copper EDTA: LD₅₀ (oral, rat) - >2,000mg/kg

Likely Routes of Exposure:

Eye contact, skin contact, inhalation. Ingestion is not expected to be a likely route of exposure through normal product use.

Immediate Exposure Effects:

Eye contact: May cause irritation, redness, and/or burning.

Skin contact: May cause irritation, redness, and/or burning.

Inhalation: May cause upper respiratory irritation.

Ingestion: Harmful if swallowed. May cause stomach pain. May cause irritation to mouth,

throat and stomach.

Delayed Exposure Effects:

No delayed or chronic effects from short- or long-term exposures are known.

Symptoms of Exposure:

Inhalation: May cause upper respiratory irritation or pulmonary effects. Skin and/or Eye contact: May cause irritation, redness, and/or burning.

Ingestion: May cause irritation to mouth and throat. May cause stomach pain.

Chronic Toxicity

Relevant Numerical Measure of Toxicity:

No delayed or chronic effects from short- or long-term exposures are known.

Likely Routes of Exposure:

Eye contact, skin contact, inhalation. Ingestion is not expected to be a likely route of exposure through normal product use.

Immediate Exposure Effects:

Eye contact: May cause irritation, redness, and/or burning.

Skin contact: May cause irritation, redness, and/or burning.

Inhalation: May cause upper respiratory irritation.

Ingestion: Harmful if swallowed. May cause stomach pain. May cause irritation to mouth,

throat and stomach.

Delayed Exposure Effects:

No delayed or chronic effects from short- or long-term exposures are known.

Symptoms of Exposure:

Inhalation: May cause upper respiratory irritation or pulmonary effects.

Skin and/or Eye contact: May cause irritation, redness, and/or burning.





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier:

FoxFarm Beastie Bloomz

Ingestion: May cause irritation to mouth and throat. May cause stomach pain.

Carcinogenic Categories

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OHSA (Occupational Health & Safety Administration):

None of the ingredients are listed.

Section 12: Ecological Information

General Notes:

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under federal and state regulations. Large quantities of fertilizer released into the environment may kill aquatic plants and animals and cause algae blooms if bodies of water are contaminated.

Section 13: Disposal Considerations

Disposal:

Dispose of container and unused contents in accordance with federal, state and local requirements.

Further Information:

Do not dispose of in sewage system.

SECTION 14: TRANSPORT INFORMATION

General Notes:

No further relevant information available.

SECTION 15: REGULATORY INFORMATION

OSHA Hazards

None of the ingredients are listed.

TSCA (Toxic Substances Control Act)

Monopotassium phosphate is listed in the TSCA inventory.





OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

Printing Date: January 4, 2017

Revision Date: 12/31/2015

Product Identifier:

FoxFarm Beastie Bloomz

California Prop. 65

None of the ingredients are listed.

SARA Hazards

None of the ingredients are listed.

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value Established by ACGIH)

None of the ingredients are listed.

NIOSH (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

SECTION 16: OTHER INFORMATION

The information and recommendations provided in this Safety Data Sheet are accurate to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship.

MATERIAL SAFETY DATA SHEET

Date-Issued: 8/1/04 MSDS Ref. No: Date-Revised:8/1/04 Revision No: New MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Open Sesame 5-45-19

PRODUCT DESCRIPTION: Soluble Plant Fertilizer

MANUFACTURER: United Compost and Organics

DBA FoxFarm Soil and Fertilizer Co.

1220 5th St.

Arcata, CA. 95518

707-826-1991

2. HAZARDOUS INGREDIENTS IDENTIFICATION

Nonhazardous Ingredients, Inert Materials, Proprietary.

Chemical Name	CAS#	OHSA PEL	ACGIH TLV
Ammonium Phosphate	7722-76-1	None	None
Monopotassium Phosphate	7778-77-0	None	None
Potassium Sulfate	7778-80-5	None	None
Iron EDTA	15708-41-5	None	None
Manganese EDTA	15375-84-5	None	None
Trisodium Nitrilotriacetate	5064-31-3	N/A	N/A

POTENTIAL HEALTH EFFECTS EYES: May cause eye irritation SKIN:May cause irritation. SKIN ABSORPTION: No INGESTION: Do not eat. INHALATION: Yes.

ACUTE TOXICITY: Acute oral toxicity (rat) LD50: 6600mg/kg for potassium sulfate.

CHRONIC: None known.

3. FIRST AID MEASURES

EYES: Flush eyes with water for 15 minutes. Obtain medical attention if irritation persists.

SKIN: Wash with water and soap if irritation occurs. Seek medical attention if condition persists.

INGESTION: Do not induce vomiting; drink warm water or milk. Low toxicity in small amounts. Large amounts may cause nitrate

Poisoning. Consult a physician.

INHALATION: If moderate discomfort to nose or throat, remove to fresh air and support respiration. Call a physician if discomfort persists.

EXTINGUISHING MEDIA: Use water spray- material is essentially non- flammable.

FIRE FIGHTING PROCEDURES: Do not breath fumes. Wear self-contained breathing apparatus to protect from oxides of nitrogen.

AUTOIGNITION TEMPERATURE: N/A

FLASHPOINT: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Noxious fumes may form. Oxides of nitrogen. Potassium Nitrate is an oxidizer and therefore increases the intensity of any fire and the possibility of explosion when contaminated with organic reducing agents.

5. HANDLING AND STORAGE

HANDLING: In case of spill, collect into a clean container for use if un contaminated. If contaminated, collect into containers for disposal. Inform authorities if sewers or watercourses are contaminated.

STORAGE: Store in a cool dry location. Keep out of reach of children and domestic animals..

6. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Eye protection recommended.

SKIN: Gloves recommended.

RESPIRATORY: NIOSH/MSHA approved respirator should be used if dust exposure exceeds levels of 10 mg/m3. VENTILATION PROTECTION: Provide local or general ventilation to keep dust below ACGIH nuisance dust limit of 10 mg/m3.

7. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Red crystals. Slight ammonia odor.

COLOR: Red

BOILING POINT: N/A

SOLUBILITY IN WATER: yes

8. STABILITY AND REACTIVITY

STABLE: In normal use and storage.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Do not mix with oxidizable materials.

POLYMERIZATION: Will not occur.

INCOMPATIBLE MATERIALS: None known.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

ALWAYS READ AND FOLLOW LABEL INSTRUCTIONS.

MATERIAL SAFETY DATA SHEET - 9 SECTIONS

OLIER DRIVE					
Product OVERDRIVE			WHMIS Classification Not Regulated		
Company Name Advanced Nutrie	ents				
Address #109 - 31063 Wheel A	ve	-	City Abbotsford		
Postal Code V2T 6H1			Emergency Telephone 1 877 604 8637		
SECTION 2 – HAZARDO					
SECTION 2 – HAZARDO HAZARDOUS INGREDIENTS	US INGR	EDIENTS CAS NUMBER	LD50 OF INGREDIENT	LC50 OF INGREDIENT	
			LD50 OF INGREDIENT	LC50 OF INGREDIENT	
HAZARDOUS INGREDIENTS			LD50 OF INGREDIENT	LC50 OF INGREDIENT	

SECTION 3 – PHYSICAL DATA

Physical State Liquid	Odor and Appearance Red liquid, No odor		рн 3.2
Specific Gravity 1.13	Vapour Density (air = 1) ND	Vapour Pressure (mmHg) ND	Evaporation Rate ND
Boiling Point 100 C	Freezing Point 0 C	Odor Threshold (ppm)	Conductivity

SECTION 4 – FIRE AND EXPLOSION DATA

Flammability Yes No	If yes, under which conditions?			
Means of Extinction Use extinguishing med	nedia suitable for surrounding fire			
Flashpoint ©	UFL (Vol %)	LFL (vol %)		
Autoignition Temperature © Explosion Risk				
Hazardous Combustion Products Extreme temp	eratures			

SECTION 5 – REACTIVITY DATA

Chemical Stability Yes No	If no, under which c	onditions?		
Incompatability with substances Yes	No If yes, which ones?			
Hazardous decomposition products				
SECTION 6 – TOXICOLOGICAL	PROPERTIES			
Route of Entry Skin	Eye Contact	Inhalation	Ingestion	
Effects of Acute Exposure Non Toxic				
Effects of Chronic Exposure				
Exposure Limits				
Carcinogenicity (If yes, explain) Yes	No No			
Reproductive Toxicity (If yes, explain) Yes	No No			
SECTION 7 – PREVENTIVE MEA	SURES			
Personal Protective Equipment	Gloves	Respirator	Eye	Clothing
Leak and Spill Procedure Treat as any water	based spill			
Handling Procedures No special equipment	t required			
Storage Requirements Do not expose to ten	perature extremes			
Shipping Information Not regulated				
			10,000	
SECTION 8 – FIRST AID MEASUR	RES			
Inhalation				
Ingestion Administer water to consciou	s victim. Seek medica	1 attention		
Skin Contact				
Eye Contact Flush eyes thoroughly with	water			
SECTION 9 – PREPARATION INFO	ORMATION			-
Prepared by LAB	Phone Number 604 504 3	3458	Preparation Date May 2006	



Scharlooweg 25

Tel:

+11-5999-4659950

Willemstad

Fax:

+11-5999-4659949

The Netherlands Antilles E-mail: info@t-nou.com

ATAMI BLOOMBASTIC MATERIAL SAFETY DATA SHEET

1. IDENTITY / DESCRIPTION

1. Identification of the substance/preparation and company

Identification of the substance:

Name of the product and code

Bloombastic BLB-USA-Sample

Use

Agriculture and Horticulture- Soil improvement

Identification Company:

Name

T-nou NV

Address

Scharlooweg 25

Residence

Willemstad

Country

Netherlands Antilles

Telephone number

011-5999-4659950

Fax number E-mail address 011-5999-4659949

info@t-nou.com

Website

www.t-nou.com

Telephone in case of emergency

alarm for doctor (24-hours,

(31)30- 274 88 88 Poisoning Information Centre Utrecht

2. HAZARDOUS INGREDIENTS IDENTITY INFORMATION

2.1 Hazardous components: None, not classified in any hazardous substance class.

2.2 Chemical character:

Phosphate (P₂O₅) 14 % Soluble Potash (K₂O) 15 % Iron (Fe) 1.12% 1.12% Chelated Iron

3. PYHSYCAL / CHEMICAL CHARATERISTICS

Boiling point: 3.1

105 degrees C

3.2 Specific gravity: 1.4095 kg/liter



3.3 Vapor Pressure: 1 Ombr Melting Point: 3.4 -/- 6 degrees C. Vapor Density (Air = 1): 3.5 N/A (Air = 1) Solubility in water: Yes, 900 g/l 3.6

6920 m Pa-s (Brookfield) 3.7 Viscosity:

Form: 3.8 Liquid 3.9 Olive Green Colour:

3.10 Odor: Dry plants pH 6.3 - 6.5 3.11 pH (at $g/L H_2O$):

4. FIRE AND EXPLOSION HAZARD DATA

4.1 Flash point: None 4.2 Flammable limits: None 4.3 LEL: None 4.4. UEL: None 4.5 Extinguishable Media: Not required

4.6 Special Fire Fighting Procedures: None

4.7 Unusual Fire & Explosion Hazards: None 4.8 Ignition temperature: None

4.9 Hazardous decomposition None 4.10 Hazardous reactions: None

5. REACTIVITY DATA

5.1 Stability: Stable Incompatibility: 5.2 None Hazardous Decomposition 5.3 None Hazardous reactions 5.4 Will not occur

HEALTH HAZARD DATA

6.1 Route of Entry / Inhalation: None

Route of Entry / Skin: 6.2 Wash of with richly water

Route of Entry / Digestion 6.3 Potential for mild diarrhea caused by enzymatic

action with bacteria in the stomach

6.4 Health Hazards (Acute & Chronic): Not a harzardous substance

6.5 Carcinogenicity: N/A

Signs & Symptoms of Exposure: 6.6 None

Medical Conditions Generall 6.7



Aggravated by Exposure:

Potential for mild diarrhea if taken internally

In concentrate form

6.8 Emergency First Aid Procedures:

Wash eye's out with Water for 15 minutes.

If swallowed, drink one quart of water to dilute.

7. PRECAUTION FOR SAFE HANDLING, STORAGE AND USE OF PRODUCT

7.1 Technical Protection Measures: No Special Precautions

7.2 Personal Protection including,

Breathing, Eye and Hands:

No Special Precautions No Special Precautions

7.3 Fire and explosion protection:

7.4

Recommended storage condition:

Storage temperature should be between 10 degrees C & 40 degrees C. (i) Temperatures over 90 degrees C may result in thermal Decomposition. By-products totally benign, organic matter, water carbon.

Precaution: Dilute with water and wash away. (ii) Change of state may occur at temperatures over 70 degrees C, causing a coagulation of protein. Precaution: Dilute with water and wash away. Indicators of points

(i) and (ii) will be a separation of products into light liquid on top half and more dense liquid on bottom of container.

7.5 Precautions on Handling:

No danger from handling packaged

material.

7.6 Waste Disposal Method

Released or Poilled Material:

Products is biodegradable. Small spills

can be washed away with water.

Large spills if unconta-minated, can be Returned to container, or washed away

with water.

8. CONTROL MEASURES

8.1	Respiratory Protection:	None required
8.2	Ventilation:	None required
8.3	Protective Gloves:	None required
8.4	Eye Protection:	None required
8.5	Other Protective Clothing or Handling	-

8.6 Work / Hygienic Practicies:

Equipment:

None required

Product is sterile in concentrated form. Wash hands after contact with soap and water prior to eating or drinking.

SAFETY DATA SHEET

LIQUINOX COMPANY

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: LIQUINOX Iron & Zinc

Product Use: All Purpose Liquid Fertilizer

Manufacturer: Liquinox Company

Address: 221 West Meats Avenue, Orange, CA 92865 USA

Business Phone: 714-637-6300

Contact Person: Brannon Garner Emergency Phone: 714-325-8387

Website: http://liquinox.com/
Email: liquinox1@aol.com

Emergency Phone: 800-424-9300 / US: Chemtrec 24-hour Emergency Response

Emergency Phone: 800-222-1222 / National Poisons Emergency

SECTION 2: HAZARDS IDENTIFICATION

Physical Hazards:

Not Classified.

Health Hazards:

Skin Corrosion/Irritation.

Category 1

Serious Eye Damage/Eye Irritation. Category 1

Environmental Hazards: Not Classified.

OSHA Defined Hazards: Not Classified.

Label Elements: (insert 2 pictograms)



Signal Word:

Danger

Hazard Statement:

Causes Skin Irritation. Causes Eye Irritation.

Precautionary Statement

Prevention:

Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face

protection. Do NOT breathe fume.

Response:

SWALLOWED: Rinse mouth with water. Do NOT induce vomiting. Call physician.

SKIN/HAIR CONTACT: Rinse well with water. Remove contaminated clothing and wash before reuse. Call physician or poison center.

EYE CONTACT: Rinse well with water for several minutes. Remove contact lenses, if present and easy to do. Continue to rinse with water. Call physician or poison center.

INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage: Store locked up.

Hazards not otherwise Classified (HNOC): None known.

Supplemental Information: None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name CAS Number %
Iron Aqueous Solution 1336-21-6 (O4 2%)

Derived from dissodium or diammonium iron, Ethylenediaminetetraacetic acid

Zinc Aqueous solution 1336-21-6 0 2%

Derived from disodium diammonium zinc, Ethylenediaminetetraacetic acid

WaterNone86%Aqueous Yucca Extract SolutionNone10%

Product Name: Liquinox Iron & Zinc

Issue Date: 5/1/15

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret,

SECTION 4: FIRST AID MEASURES

INHALATION: Move to fresh air. Call a physician if symptoms develop or persist.

SKIN CONTACT: Rinse skin immediately with plenty of water/shower.

Remove all contaminated clothing immediately and wash before reuse.

Call a physician or poison control center immediately. Chemical burns must be treated by a physician.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing with water.

Call physician or poison control center immediately.

INGESTION: Rinse mouth with water. Do NOT induce vomiting. Call physician or poison control center immediately.

If vomiting does occur, keep head low so that stomach content doesn't get into lungs.

Most Important Symptoms, Effects, Acute and Delayed:

Symptoms may include burning pain, stinging, tearing, redness, swelling, and blurred vision. Rinse skin thoroughly.

<u>Indication of Immediate Medical Attention, and Special Treatment Needed:</u>

Provide general supportive measures and treat symptomatically. Chemical Burns: Flush with water immediately.

While flushing, remove clothes which do not adhere to affected area. Call an ambulance.

Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General Information:

Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog. Foam. Dry Chemical Powder. Carbon Dioxide (CO2).

Unsuitable Extinguishing Media: Do NOT use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from Chemical: During fire, gases hazardous to health may be formed.

Special Protective Equipment And Precautions for Fire Fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire Fighting Equipment/Instructions: Move containers from fire area if you can do so without risk.

Specific Methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General Fire Hazards: No unusual fire or explosion hazards noted.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak.

Wear appropriate protective equipment and clothing during clean-up. Do NOT breathe mist or vapor.

Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing.

Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For personal protection, see section 8 of the SDS. Not responsible for mishandling product.

Methods and Materials for Containment and Clean-Up:

This product is miscible in water. It should NOT be released into the environment.

<u>Large Spills:</u> Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers following product recovery, flush area with water.

<u>Small Spills:</u> Wipe with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for reuse.

For waste disposal, see section 13 of the SDS.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do NOT contaminate water. Avoid discharge into drains, water courses or onto the ground.

Product Name: Liquinox Iron & Zinc

Issue Date: 5/1/15

Page 2 of 7

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Do NOT breathe mist or vapor. Do NOT get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices, Keep out of reach of children.

Conditions for Safe Storage, Including any Incompatibilities:

Read directions, close containers after using. Store in accordance with local regulations.

Store in original container protected from direct sunlight in a cool, dry and well-ventilated area, away from incompatible materials (see section 10), and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits: None.

Appropriate Engineering Controls: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be

necessary to reduce emissions to acceptable levels.

Individual Protection Measures

Hygiene Measures:

A washing facility or water for eye and skin cleaning purposes should be present.

Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face

respirator may be required instead. Recommended: Wear safety glasses.

Skin Protection

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Body Protection:

Personal protective equipment for the body should be selected bases on the task being performed and the risks involved.

Other Skin Protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory Protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Light to dark Brown
Odor:	Minimum Odor
Odor Threshold:	Avoid Breathing Fumes; possible irritation
pH:	0.7
Melting/Freezing Point:	F
Boiling/Condensation Point:	F
Sublimation Temperature:	· · · · · · · · · · · · · · · · · · ·

Product Name: Liquinox Iron & Zinc

Issue Date: 5/1/15

N/A Flash Point: (Butyl Acetate = 1); slower than either **Evaporation Rate:** Flammability: Lower and Upper Explosive (flammable) Limits: Lower: Not Determined. Upper: Not Determined. Vapor Pressure: 5.65 mmHg at 20°C Vapor Density: Heavier Relative Density: 9.8lb/gal. in H2O soluble Solubility: Solubility in Water: Total. Partition Coefficient:n-octanol/water:Not Determined. **Auto-Ignition Temperature:** Not Available. Decomposition Temperature: Not Available. Viscosity: Not Available. Other Information: Density: 0.28g/cm3 estimated.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

Reacts violently with strong alkaline substances. This product may react with reducing

1.220

Chemical Stability:

Material is stable under normal conditions.

Possibility of Hazardous

Specific Gravity:

Reactions:

No dangerous reaction known under conditions of normal use.

Conditions to Avoid:

Do NOT mix with other chemicals. Contact with incompatible materials. Bases. Reducing agents.

Incompatible Materials:

Hazardous Decomposition

Products:

No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure:

Inhalation: May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin Contact: Not Available. Eye Contact: Not Available.

Causes digestive tract burns. Ingestion:

Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Symptoms may include stinging, tearing, redness, swelling and blurred vision. Skin irritation.

Information on Toxicological Effects

Acute Toxicity:

Components Species **Test Results**

Iron Aqueous Solution CAS#1336-21-6

Derived from dissodium or diammonium iron, Ethylenediaminetetraacetic acid

N/A Acute

Zinc Aqueous solution CAS#1336-21-6

Derived from disodium diammonium zinc, Ethylenediaminetetraacetic acid

N/A *Estimates for product may be bases on additional component data not shown.

Skin Corrosion/Irritation:

Not Available.

Serious Eye Damage/

Eye Irritation:

Not Available.

Respiratory Sensitization:

Not a respiratory sensitizer.

Skin Sensitization:

This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity:

No data available to indicate product or any components present at great than 0.1% are

mutagenic or genotoxic.

Carcinogenicity:

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated

Substances (29 CFR 1910.1001-1050); Not Listed.

Reproductive Toxicity:

This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity

Single Exposure:

Not Classified.

Specific Target Organ Toxicity

Repeated Exposure:

Not Classified.

Aspiration Hazard:

Not an aspiration hazard.

Chronic Effects:

Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Components.

Species

Test Results

1336-21-6 Iron Aqueous Solution

Derived from dissodium or diammonium iron, Ethylenediaminetetraacetic acid

Zinc Aqueous solution 1336-21-6

Derived from disodium diammonium zinc, Ethylenediaminetetraacetic acid

Water

Aqueous Yucca Extract Solution

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do

NOT allow this material to drain into sewers/water supplies. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local Disposal Regulations:

Dispose in accordance with all applicable regulations.

Hazardous Waste Code:

The waste code should be assigned in discussion between the user, the producer and the

waste disposal company.

Waste from Residues /

Unused Products:

Dispose of in accordance with local regulations. Empty containers or liners may retain

some product residues. This material and its container must be disposed of in a safe

manner (see disposal instructions).

Contaminated Packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings

even after container is emptied.

SECTION 14: TRANSPORT INFORMATION

Product Name: Liquinox Iron & Zinc

Issue Date: 5/1/15

Page 5 of 7

^{*}Estimates for product may be based on additional component data not shown.

DOT:

Not regulated as dangerous goods.

Per packaging exceptions 173.154 8(A) inside containers 1.3 gallons or less DOT exempt. In containers greater than 1.3 gallons DOT proper shipping name: UN3264 Corrosive Liquid, acidic, inorganic, n.o.s., 8, Ill. Not regulated fertilizing compounds

(manufactured fertilizers) NOI, Liquid, (NMFC 68140, Sub 6: Class: 70)

IATA:

UN Number:

ID8000

UN Proper Shipping Name:

Consumer Commodity.

Transport Hazard Clases(es)

Class:

Subsidiary Risk: Packaging Group: Not applicable. Not applicable.

Environmental Hazards:

No.

ERG Code:

9L

Special Precautions for User: Other Information

Read safety instructions, SDS and emergency procedures before handling.

Passenger and Cargo Aircraft:

Allowed. Allowed.

Cargo Aircraft Only:

IMDG

UN Number:

ID8000

UN Proper Shipping Name:

Consumer commodity.

Transport Hazard Class(es)

Class:

Subsidiary Risk:

Not applicable.

Label(s):

Packaging Group:

Not applicable.

Environmental Hazards Marine Pollutant:

No.

EmS:

Not available.

Special Precautions for User:

Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78

And IBC Code: IATA; IMDG

Not established.



(insert pictogram)

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:

This product is a "Hazardous Chemical" as defined by the OSHA Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not Regulated.

CERCLA Hazardous Substance List (40 CFR 302.4):

SARA 304 Emergency Release Notification: Not Regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories:

Immediate Hazard: Yes

Delayed Hazard: No

Fire Hazard:

Slight

Pressure Hazard: Reactivity Hazard: No

No

SARA 302 Extremely Hazardous Substance: Not Listed.

SARA 311/312 Hazardous Chemical: No

SARA 313 (TRI reporting): Acute: Chemical: Zinc Compounds.

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not Regulated.

Product Name: Liquinox Iron & Zinc

Issue Date: 5/1/15

Page 6 of 7

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130): Not Regulated. Safe Drinking Water Act (SDWA): Not Regulated.

US State Regulations

US. California Controlled Substances.

CA Department of Justice (California Health and Safety Code Section 11100): Not Listed.

US. Massachusetts RTK - Substance List: PHOSPHORIC ACID (CAS 7664-38-2)

US, New Jersey Worker and Community Right-to-Know Act: PHOSPHORIC ACID (CAS 7664-38-2)

US. Pennsylvania Worker and Community Right-to-Know Law: PHOSPHORIC ACID (CAS 7664-38-2)

US. Rhode Island RTK: PHOSPHORIC ACID (CAS 7664-38-2)

<u>US. California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):</u> This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories:

Country(s) or	r Region Inventory Name	On Inventory *(Yes/No)*
Australia:	Australian Inventory of Chemical Substan	ces (AICS); No
Canada:	Domestic Substances List (DSL):	No
Canada:	Non-Domestic Substances List (NDSL)	No
China:	Inventory of Existing Chemical Substances in Chir	a (IECSC): No
Europe: Europ	pean Inventory of Existing Commercial Chemical Su	bstances (EINECS): No
Japan:	Inventory of Existing and New Chemical Substance	es (ENCS): No
Korea:	Existing Chemicals List (ECL):	No
New Zealand:	New Zealand Inventory:	No
Philippines:	Philippine Inventory of Chemicals and Chemical S	ubstances (PICCS): No
United States &	Puerto Rico: Toxic Substances Control Act (T	SCA) Inventory: No
4-44 TZ 11 1 11 11	71	

^{*&}quot;Yes" indicates all components of this product comply with inventory requirements administered by the governing country(s).

SECTION 16: OTHER INFORMATION

HMIS Ratings (Hazardous Material Information System (USA):

Health: 1

Flammability: 0 Physical Hazard: 0

NFPA Ratings (National Fire Protection Association (USA):

Health: 1 Flammability: 0 Instability: 0

SDS Issue Date: 5/1/15

Date of Printing: 5/1/15 Version: 1.0

SDS Prepared By: T.D. for Liquinox Company / SAFETY DATA SHEET

Issue Date: 5/1/15

Product Name: Liquinox Iron & Zinc

Page 7 of 7

^{*&}quot;No" indicates one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SAFETY DATA SHEET



Cal-Mag

Section 1. Identification

GHS product identifier

: Cal-Mad

Other means of identification

: Not available.

Product type

: Liquid.

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

Identified uses

: Not available.

Supplier's details

: Botanicare, LLC

6858 W. Chicago Street Suite 3

Chandler, AZ 85226
Tel: +1-480-777-2000
Toll Free: +1-877-753-0404
Fax: +1-480-777-2015
Email: info@botanicare.com
Web: www.botanicare.com

Emergency telephone

: +1-480-777-2000

number (with hours of

Monday - Friday 8:00 a.m. - 5:00 p.m.

operation)

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: SERIOUS EYE DAMAGE - Category 1

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H318 - Causes serious eye damage.

Precautionary statements

Prevention

: P280 - Wear eye or face protection.

Response

: P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

Storage: Not applicable.Disposal: Not applicable.

Hazards not otherwise

classified

: None known.





Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

CAS number : Not applicable.

Product code : Not available.

Ingredient name	%	CAS number
Calcium ammonium nitrate	≥10 - <25	15245-12-2
Magnesium nitrate hexahydrate	≥10 - ≤25	13446-18-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eve contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Maintain an open airway. Get medical attention if symptoms occur.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

pain watering redness

Inhalation : No known significant effects or critical hazards.





Section 4. First aid measures

Skin contact

: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion

: Adverse symptoms may include the following:

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

: No specific treatment.

Protection of first-aiders

: If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: nitrogen oxides

metal oxide/oxides

Special protective actions for fire-fighters

: No special measures are required.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).



Section 6. Accidental release measures

Methods and materials for containment and cleaning up

Spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Calcium ammonium nitrate Magnesium nitrate hexahydrate	None. None.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that evewash stations and safety showers are close to the workstation location.





Section 8. Exposure controls/personal protection

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Amber. [Dark]
Odor : Not available.
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.

Melting point: Not available.Boiling point: 100°C (212°F)Flash point: Not available.Evaporation rate: Not available.

Flammability (solid, gas)
Lower and upper explosive

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

Relative density : Not available.

Solubility : Completely Soluble.

Partition coefficient: n-

octanol/water

Not available.

: Not available.

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.



Section 10. Stability and reactivity

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: Water of crystallization from applicable components driven off at approximately 235° Fahrenheit / 113° Celsius.

Incompatible materials

: Corrosive to metals. reacts exothermally with strong bases and oxidizers.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Calcium ammonium nitrate	LD50 Oral	Rat	4715 mg/kg	-
Magnesium nitrate hexahydrate	LD50 Oral	Rat	5440 mg/kg	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Magnesium nitrate hexahydrate	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	24 hours 500 mg 24 hours 500 mg	

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects





Section 11. Toxicological information

Eye contact : Causes serious eye damage.

Inhalation
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects

: No known significant effects or critical hazards.

Potential delayed effects

: No known significant effects or critical hazards.

Long term exposure

Potential immediate

: No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3846.2 mg/kg



Section 12. Ecological information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-3	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG: Not applicable







Section 14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602

: Not listed

Class I Substances

Clean Air Act Section 602

: Not listed

Class II Substances

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

: Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Calcium ammonium nitrate	≥10 - <25	No.	No.	No.	Yes.	No.
Magnesium nitrate hexahydrate	≥10 - ≤25	Yes.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements Magnesium nitrate hexahydrate		13446-18-9	≥10 - ≤25
Supplier notification	Magnesium nitrate hexahydrate	13446-18-9	≥10 - ≤25

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : None of the components are listed. **New York** : None of the components are listed. **New Jersey** : None of the components are listed. Pennsylvania : None of the components are listed.

California Prop. 65





Section 15. Regulatory information

No products were found.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification		
SERIOUS EYE DAMAGE - Category 1	Calculation method		

History

Date of issue mm/dd/yyyy : 04/15/2016

Version : 1

Prepared by : KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Product: Maxsea Plant Food - Bloom 3-20-20

Manufacturer's Name: JT Dimmick PO Box 640 Garberville, CA 95542

1. Product Identification: Maxsea Plant Food - Bloom 3-20-20

2. Ingredients:

CAS Registration Number:

Ingredients

Seaweed Powder

Blood Meal

Urea 57-13-6 Ammonium Phosphate 7722-76-1 Monopotassium Phosphate 7778-77-0 Potassium Nitrate 7757-79-1 Sulfate of Potash 7778-80-5 Muriate of Potash 7447-40-7 Sodium Molybdate 7631-95-0 Sodium Borate 1303-96-4 Copper EDTA 14025-15-1 Iron EDTA 15708-41-5 Zinc EDTA 14025-21-9 Manganese EDTA 15375-84-5

3. Physical Data:

Boiling Point: N/A

Vapor Pressure (mm Hg.): N/A Vapor Density (air+1): N/A Solubility in Water: 3 lbs / gal Specific Gravity (H₂O=1): N/A

Melting Point: N/A

Evaporation Rate (Butyl Acetate+1): N/A

Odor: Fresh, aroma of the sea.

Appearance: Natural brown granules, dark seaweed green in solution.

4. Fire and Explosion Data:

Flash Point: N/A

Lower Flammability: N/A Upper Flammability: N/A

Extinguishing Media: Use suitable agent for surrounding fire.

Fire Fighting Procedures: Water or dry chemical to extinguish fuel feeding fire.

Fire Hazards: None.

5. Stability and Reactivity:

Stability: Stable

Hazardous Decomposition Products: N/A Hazardous Polymerization: Will not occur. Incompatibilities: Strong alkalies and oxidizers. Conditions to Avoid: Heat over 200 degrees.

6 Health Effects:

Health Hazards: Prolonged contact may cause irritation.

Carcinogenicity: N/A

Signs and Symptoms of Exposure: N/A

Medical Conditions Aggravated by Exposure: N/A

7. First Aid Measures:

Ingestion: Induce vomiting, call poison control center or doctor immediately for

further treatment advice.

Skin: Wash with soap and water. **Inhalation:** Move to fresh air.

Eyes: Flush immediately with large amounts of water, continue rinsing for 15 to

20 minutes.

- 8. Accidental Release Measures: Sweep into a dry container.
- **9. Disposal Methods:** Apply as fertilizer to fields. If contaminated, place in a suitable container for recycling or disposal in accordance with applicable federal, state and local regulations.
- **10.** Handling and Storage: Store in a cool dry place with adequate ventilation.
- **11. Other Precautions:** Keep out of reach of children and pets. Do not Ingest. Keep out of lakes, streams, ponds or reservoirs. Avoid run-off.

12. Exposure Controls / Personal Protection

Respiratory: Respiratory protection is generally not needed. If required, use a MSHA/NIOSH approved respirator.

Ventilation: Use in areas of adequate ventilation.

Protective Gloves: Garden gloves are recommended.

Eye Protection: Eye and face protection is not required for routine use. **Other Protective Clothing or Equipment:** Appropriate clothing to reduce

exposure to skin.

Work / Hygienic Practices: Wash hands and skin areas after usage.

The above information is based on knowledge that is believed to be reliable but does not purport to be all-inclusive. Always read and follow label directions.

Product: Maxsea Plant Food - All Purpose 16-16-16

Manufacturer's Name: JT Dimmick PO Box 640 Garberville, CA 95542

1. Product Identification: Maxsea Plant Food - All Purpose 16-16-16

2. Ingredients:

CAS Registration Number:

Ingredients

Seaweed Powder

Blood Meal

57-13-6 Urea 7722-76-1 Ammonium Phosphate Potassium Nitrate 7757-79-1 Sulfate of Potash 7778-80-5 Sodium Molybdate 7631-95-0 Sodium Borate 1303-96-4 Copper EDTA 14025-15-1 Iron EDTA 15708-41-5 Zinc EDTA 14025-21-9 Manganese EDTA 15375-84-5

3. Physical Data:

Boiling Point: N/A

Vapor Pressure (mm Hg.): N/A Vapor Density (air+1): N/A Solubility in Water: 3 lbs / gal Specific Gravity (H₂O=1): N/A

Melting Point: N/A

Evaporation Rate (Butyl Acetate+1): N/A

Odor: Fresh, aroma of the sea.

Appearance: Natural brown granules, dark seaweed green in solution.

4. Fire and Explosion Data:

Flash Point: N/A

Lower Flammability: N/A Upper Flammability: N/A Extinguishing Media: Use suitable agent for surrounding fire.

Fire Fighting Procedures: Water or dry chemical to extinguish fuel feeding fire.

Fire Hazards: None.

5. Stability and Reactivity:

Stability: Stable

Hazardous Decomposition Products: N/A Hazardous Polymerization: Will not occur. Incompatibilities: Strong alkalies and oxidizers. Conditions to Avoid: Heat over 200 degrees.

6 Health Effects:

Health Hazards: Prolonged contact may cause irritation.

Carcinogenicity: N/A

Signs and Symptoms of Exposure: N/A

Medical Conditions Aggravated by Exposure: N/A

7. First Aid Measures:

Ingestion: Induce vomiting, call poison control center or doctor immediately for

further treatment advice.

Skin: Wash with soap and water. **Inhalation:** Move to fresh air.

Eyes: Flush immediately with large amounts of water, continue rinsing for 15 to

20 minutes.

- 8. Accidental Release Measures: Sweep into a dry container.
- **9. Disposal Methods:** Apply as fertilizer to fields. If contaminated, place in a suitable container for recycling or disposal in accordance with applicable federal, state and local regulations.
- **10.** Handling and Storage: Store in a cool dry place with adequate ventilation.
- **11. Other Precautions:** Keep out of reach of children and pets. Do not Ingest. Keep out of lakes, streams, ponds or reservoirs. Avoid run-off.

12. Exposure Controls / Personal Protection

Respiratory: Respiratory protection is generally not needed. If required, use a

MSHA/NIOSH approved respirator.

Ventilation: Use in areas of adequate ventilation. **Protective Gloves:** Garden gloves are recommended.

Eye Protection: Eye and face protection is not required for routine use.

Other Protective Clothing or Equipment: Appropriate clothing to reduce

exposure to skin.

Work / Hygienic Practices: Wash hands and skin areas after usage.

The above information is based on knowledge that is believed to be reliable but does not purport to be all-inclusive. Always read and follow label directions.

MATERIAL SAFETY DATA SHEET

PRODUCT: Plus C

SECTION 1: IDENTIFICATION

Manufactures Name:

Ecological Laboratories, Inc.

Address:

2525 N.E. 9th Avenue Cape Coral, FL 33909

Emergency Telephone:

(800)424-9300 (outside the U.S.A. (202) 483-7616 collect)

Information Telephone: (800) 645-2976

Date Prepared: 08/06/2012

SECTION 2: COMPOSITIONS/ INGREDIENTS

Ingredients are proprietary

SECTION 3: HAZARD IDENTIFICATION

Inhalation:

Move to fresh air.

Skin absorption:

Systematically toxic concentrations will probably not be absorbed

through the skin in man.

Ingestion:

May result extreme diarrhea.

Other effects of overexposure:

May cause infection of in contact with open wounds.

SECTION 4: FIRST AID MEASURES

Ingestion:

Induce vomiting only if advised by physician or poison control center.

Eyes:

Immediately flush with water for at least 15 minutes and have eyes examined and

treated by medical personnel. Seek medical attention if irritation persists.

Skin:

Remove contaminated clothing and footwear. Wash material off the skin with soap and

water. Wash clothing and footwear before reuse.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point:

None

Extinguishing Media:

None None

Special Fire Fighting Procedures: Unusual Fire & Explosion Hazards:

None

Fire & Explosion Hazard Summary:

None
Not considered to be a fire hazard.

Fire-Fighting Equipment/ Procedure:

Standard fire fighting equipment

SECTION 6: ACCIDENTAL RELEASE MEASURES

In Case of Spill or Accidental Release:

Where possible, flush down drain to waste treatment sewer; otherwise on small spills, use chemical adsorbent and sweep up.

For large spills, contain and collect for reuse or disposal

SECTION 7: HANDLING AND STORAGE

Handling:

Precautions to be taken in handling or storing: Prevent skin and eye contact. Wash hands

thoroughly with soap and water after use. Avoid contact with eyes.

Storage:

Store material at temperatures below 120° F./49° C. and above 32° F.IO° C.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Protection:

NIOSH approved respiratory equipment not required.

Ventilation:

Normal

Local exhaust:

Normal No

Forced exhaust: Protective gloves:

Rubber gloves not necessary but recommended.

Eye protection:

Safety glasses not necessary but recommended

Other protective clothing or equipment: None.

Work/Hygienic practices:

Wash hands and face before eating, drinking, or smoking after

handling material.

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance:

Pink to deep purple liquid (colors may vary from bottle to bottle)

Odor:

Pungent and distinctive odor

:Hq

6.9 - 7.5

Solubility in Water:

N/D

Boiling Point: Vapor Pressure (mm Hg): 212° F

Vapor Density:

N/D N/D

Specific Gravity:

0.9985

SECTION 10: STABILITY AND REACTIVITY

Stability:

Stable under normal conditions

Incompatibility (materials to avoid):

Strong acids or alkali compounds.

Hazardous Decomposition or byproducts:

None

Hazardous Polymerization:

Will not occur

SECTION 11: TOXICOLOGY INFORMATION

None

SECTION 12: ECOLOGICAL INFORMATION

None

SECTION 13: DISPOSAL INFORMATION

Waste and Disposal Method:

Dispose of this product or its residues must be in accordance with all local,

state, and federal requirements.

SECTION 14: TRANSPORT INFORMATION

D.O.T. Label:

None

UN number:

None

SECTION 15: REGULATORY INFORMATION

None

SECTION 16: ADDITIONAL INFORMATION

HMIS Rating:

HEALTH = 1 FIRE = 0

REACTIVITY = 0

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 these data or the results to be obtained from use thereof. Ecological Laboratories, Inc. assumes no responsibility for the injury to customers or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, since actual use by others is beyond our control, no guarantee, expressed or implied, is made by Ecological Laboratories, Inc. as to the effect of such use, the results to be obtained or the safety and toxicity of the product, nor does Ecological Laboratories, Inc. assume any liability arising out of use, misuse, by others, of the product referred to herein. Information provided herein is provided by Ecological Laboratories, Inc. solely for customer's assistance in complying with the Occupational Safety and Health Act of 1970 and regulations thereunder. Any other use is prohibited.

MATERIAL SAFETY DATA SHEET GENERAL HYDROPONICS pH Up™

7/28/06

SECTION 1. MATERIAL IDENTIFICATION

Product Name: pH Up™

Chemical Family: Alkali.

Product Use: To raise the pH of hydroponic nutrient solutions and plant fertilizers.

Manufactured by: General Hydroponics, 3789 Vine Hill Rd. Sebastopol CA 95472 (707) 824-9376 Fax: (707) 824-

9377

For Chemical Emergency

Spill Leak Fire Exposure or Accident:

Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300

INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

The percentage of mixture information for pH Up^{TM} is withheld as a trade secret. The basic ingredients of pH Up^{TM} are potassium carbonate and potassium silicate.

SECTION 3. HAZARDS IDENTIFICATION

*** Emergency Overview ***

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects

Primary Entry Routes: Ingestion, inhalation, skin, eyes.

Target Organs: Mucous membrane of the respiratory system, eyes, and skin.

Acute Effects:

- Ingestion: Irritation and possible burns to gastrointestinal system.
- .• Inhalation: Irritation and possible burn of mucous membranes.
- .• Eye: Severe burns.
- .. Skin: Severe irritation and burns.

Carcinogenicity: IARC, NTP, and OSHA do not list any of the ingredients as carcinogenic.

Medical Conditions Aggravated by Long- Term Exposure: Pre-existing skin disorders.

Chronic Effects: Same as acute.

Other: None

Section 4. FIRST AID MEASURES

Ingestion: Never give anything by mouth to an unconscious or convulsing person. Dilute the alkali by feeding water or milk, and seek immediate medical help.

Eye Contact: Do not allow victim to rub or keep eyes tightly shut. Gently lift eyelids and flush immediately and continuously with flooding amounts of water for at least 15 minutes. Consult a physician or ophthalmologist if pain or irritation develops.

Skin Contact: Wash exposed area with soap and water. For reddened or blistered skin, consult a physician.

Inhalation: Remove exposed person to fresh air and support breathing, if necessary. Consult a physician as soon as possible.

After first aid: Get appropriate community medical support.

SECTION 5. FIRE AND EXPLOSION DATA

Flash Point: Not flammable.

Auto-ignition Temperature: Not flammable.

LEL: Unknown.

Flammability Classification: Not flammable.

Burning Rate: Not flammable.

Extinguishing Media: Use dry chemical, carbon dioxide, water spray, fog, or foam,

Unusual Fire or Explosion Hazards: Container may explode in heat of fire.

Hazardous Combustion Products: Unknown.

Fire Fighting Instructions: Do not release run-off from fire control methods to sewers or waterways.

Fire Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill /Leak Procedures: Use personal protective equipment, neutralize with weak acid (acetic), and place in closed container for disposal. Flush spill area with water. In case of large spill, clear the area and notify appropriate emergency response activity.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Avoid contact with skin and eyes, inhalation of aerosols and ingestion. Wear an appropriate NIOSH-approved respirator for protection where airborne concentrations are excessive. Respirator usage must be in accordance with OSHA requirements (29 CFR 1910.134).

Storage Requirements: Store as a corrosive in tightly closed containers away from acids.

Regulatory Requirements: Follow applicable OSHA regulations.

SECTION 8. EXPOSURE CONTROLS/personal protection

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne concentrations as low as possible.

Administrative Controls: Avoid inhalation, ingestion, skin and eye contact.

Respiratory Protection: If this product is used as directed, respiratory protection is not required. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/ NIOSH-approved respirator. If respirators are used, OSHA requires a written respiratory protection program that includes, at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/ Equipment: Use gloves and aprons while using.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor and Physical State: Blue liquid.

Odor Threshold Range: Odorless.

Vapor Pressure: Unknown,

pH: 12.

Specific Gravity: 1.09.

Water Solubility: Completely soluble.

Other Solubility's: Unknown.

Boiling Point: 212°F.

Freezing Point: 32°F Viscosity: Unknown.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable at room temperature in closed containers, under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Acids, metals (aluminum, zinc, tin), organics, nitrocarbons, halocarbons,

Conditions to Avoid: High temperatures and flames.

Hazardous Decomposition Products: Carbon dioxide and possibly carbon monoxide.

SECTION 11. TOXICOLOGICAL INFORMATION

The toxicity of the combination of the chemicals in the concentrations used in General Hydroponics pH Up^{TM} is unknown.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Unknown

Environmental Fate: Not expected to be significant. Physical removal from air can occur via rainfall.

Environmental Degradation: Unknown.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal: Follow Federal, State, and local regulations.

SECTION 14. TRANSPORTATION INFORMATION

Do not transport with food and feedstuff

Proper Shipping Name: Corrosive mixture, liquid, basic, inorganic, n.o.s.

Hazard Class: 8

UN/NA: 3266

Packing Group: III

SECTION 15. REGULATORY INFORMATION

EPA Regulations: Not listed

SECTION 16. OTHER INFORMATION

General Hydroponics pH UpTM is a plant nutrition aid. Information assembled for this Material Safety Data Sheet is for the use of this product as intended by the manufacturer. Users should take all precautions recommended herein while working with this product.

General Hydroponics provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in using this product.

MATERIAL SAFETY DATA SHEET GENERAL HYDROPONICS pH Down™

3/12/09

SECTION 1. MATERIAL IDENTIFICATION

Product Name: pH Down™

Chemical Family: Corrosive mixture of acids in aqueous solution

Product Use: To lower the pH of hydroponic nutrient solutions and plant fertilizers.

Manufactured by: General Hydroponics, 3789 Vine Hill Rd. Sebastopol CA 95472

For Emergency Day or Night Call: CHEMTREC – Domestic North America 800-424-9300, International 703-527-3887 (collect calls accepted)

SECTION 2, COMPOSITION / INFORMATION ON INGREDIENTS

The percentage of mixture information for pH Down™ is withheld as a trade secret. The basic ingredients of pH Down™ are phosphoric acid, citric acid, and mono ammonium phosphate.

SECTION 3. HAZARDS IDENTIFICATION

*** Emergency Overview ***

DANGER! CORROSIVE. CAUSES SEVERE IRRITATION AND BURNS TO EVERY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED.

Potential Health Effects:

Primary Entry Routes: Ingestion, inhalation, skin.

Target Organs: Gastrointestinal and respiratory tract.

Acute Effects:

- Ingestion: severe digestive tract irritation with possible burns.
- · Inhalation: irritation and possible burns.
- · Eye, severe burns.
- · Skin: severe irritation and burns.

Carcinogenicity: IARC, NTP, and OSHA do not list as a carcinogen.

Medical Conditions Aggravated by Long-term Exposure: Unknown.

Chronic Effects: Same as acute.

Other: None.

Section 4. FIRST AID MEASURES

Ingestion: Never give anything by mouth to an unconscious or convulsing person. Rinse out the mouth drink two to four cups of milk. **Do not induce vomiting.** See a physician immediately.

Eye Contact: Do not allow victim to rub or keep eyes tightly shut. Gently lift eyelids and flush immediately and continuously with flooding amounts of water for at least 15 minutes. Consult a physician or ophthalmologist if pain or irritation develops.

Skin Contact: Wash exposed area with soap and water. For reddened or blistered skin, consult a physician.

Inhalation: Remove exposed person to fresh air and support breathing, if necessary. Consult a physician as soon as possible.

After first aid: Get appropriate community medical support.

SECTION 5. FIRE AND EXPLOSION DATA

Flash Point: Not flammable.

Auto-ignition Temperature: Not flammable.

LEL: Unknown

Flammability Classification: Not flammable.

Burning Rate: Not flammable.

Extinguishing Media: Use dry chemical, carbon dioxide, water spray, fog, or foam.

Unusual Fire or Explosion Hazards: Container may explode in heat of fire.

Hazardous Combustion Products: Unknown.

Fire-Fighting Instructions: Do not release run-off from fire control methods to sewers or waterways. **Fire Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill /Leak Procedures: Use personal protective equipment, cover with dry lime or soda ash, and place in closed container for disposal. Flush spill area with water. In case of large spill, clear the area and notify appropriate emergency response activity.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Use only in well-ventilated areas. Avoid contact with skin and eyes; avoid inhalation of aerosols and ingestion. Wear an appropriate NIOSH-approved respirator for protection where airborne concentrations are excessive. Respirator usage must be in accordance with OSHA requirements (29 CFR 1910.134).

Storage Requirements: store as a corrosive in tightly closed containers away from incompatible materials.

Regulatory Requirements: Follow applicable OSHA regulations.

SECTION 8. EXPOSURE CONTROLS/Personal Protection

Airborne Exposure Limits for Phosphoric Acid:

MSDS For pH Down Wet 3/12/09 Page 2 of 4

-OSHA Permissible Exposure Limit (PEL):1 mg/m3 (TWA)

-ACGIH Threshold Limit Value (TLV):1 mg/m3 (TWA), 3 mg/m3 (STEL)

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne concentrations as low as possible.

Administrative Controls: Avoid inhalation, ingestion, skin and eye contact. Do not mix with solutions containing bleach or ammonia.

Respiratory Protection: If this product is used as directed, respiratory protection is not required. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/ NIOSH-approved respirator. If respirators are used, OSHA requires a written respiratory protection program that includes, at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/ Equipment: Wear gloves and aprons while using.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor and Physical State: Yellow liquid.

Odor Threshold Range: Odorless.

Vapor Pressure: @20 °C 17.5mm.

Water Solubility: Completely soluble.

Other Solubilities: Unknown.

pH: 1.2

Specific Gravity: 1.13

Boiling Point: 104° C.

Freezing Point: -8 ° C.

Viscosity: 1.00 mNsm⁻²

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: General Hydroponics pH Down™ can react with, alkali's (bases), aldehydes, amines, amides, alcohol's, glycol's, azo-compounds, carbamates, cresols, esters, phenols, metals, metal nitrates, oxides, strong caustics, solutions containing bleach or ammonia.

Conditions to Avoid: Do not mix with ammonia or bleach. Do not put in metal containers. Do not expose to excessive heat.

Hazardous Decomposition Products: Oxides of phosphorus.

SECTION 11. TOXICOLOGICAL INFORMATION

The toxicity of the combination of the chemicals, in the concentrations used in General Hydroponics pH

MSDS For pH Down Wet 3/12/09 Page 3 of 4

Down™ is unknown. The rat oral, LD50 for phosphoric acid is 1,530 mg/kg and the rabbit skin, LD50 is 220 mg/kg.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Unknown.

Environmental Fate: Not expected to be significant. Physical removal from air can occur via rainfall.

Environmental Degradation: Unknown.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal: Follow Federal, State, and local regulations.

SECTION 14. TRANSPORTATION INFORMATION

Do not transport with food and feedstuff

Proper Shipping Name: Phosphoric acid mixture

Hazard Class: 8 Canadian 8 (9.2)

UN/NA: UN 1805

Packing Group: III

SECTION 15. REGULATORY INFORMATION

EPA Regulations: Not listed

SECTION 16. OTHER INFORMATION

General Hydroponics pH Down™ is a plant nutrition aid. Information assembled for this Material Safety Data Sheet is for the use of this product as intended by the manufacturer. Users should take all precautions recommended herein while working with this product.

General Hydroponics provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in using this product.