# Safety Data Sheet

Issue Date: 04-May-2015	Revision Date: 06-Sept-2018		Version 2
	1. IDENTIFICATION		
Product Identifier Product Name	Nutri-Phite P Foliar MZ		
Other means of identification SDS #	VLS-104		
Product Code Document	3-26-7 FFN 1101		
<u>Recommended use of the chemical</u> Recommended Use	and restrictions on use Fertilizer.		
Details of the supplier of the safety Supplier Address Verdesian Life Sciences, U.S., LLC. 12222 Ave 352 Visalia, CA 93291	<u>data sheet</u>		
<u>Emergency Telephone Number</u> Company Phone Number Emergency Telephone (24 hr)	Business Phone: (800) 868-6446 Fax Phone: (559) 625-9255 INFOTRAC 1-352-323-3500 (International)		
	1-800-535-5053 (North America)		
	2. HAZARDS IDENTIFICATION		
Appearance Clear colorless liquid	Physical State Liquid		Odor Faint to slight odor
Classification_ Acute toxicity - Oral		Category 4	
<u>Signal Word</u> Warning			
Hazard Statements Harmful if swallowed			
Precautionary Statements - Prevent Wash face, hands and any exposed s Do not eat, drink or smoke when using	kin thoroughly after handling		
Precautionary Statements - Respor IF SWALLOWED: Immediately call a I Rinse mouth	<u>ise</u> POISON CENTER or doctor/physician		

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

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

Chemical Name	CAS No	Weight-%
Phosphorous acid	10294-56-1	20-30
Potassium hydroxide	1310-58-3	1-10
Sodium hydroxide	1310-73-2	1-10
Citric Acid	77-92-9	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST-AID MEASURES

### First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.
Ingestion	Do not induce vomiting. Rinse mouth. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Immediate medical attention is required.
Most important symptoms and eff	ects
Symptoms	May cause eye, skin and respiratory tract irritation.
Indication of any immediate medic	al attention and special treatment needed
Notes to Physician	Treat symptomatically.

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

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media Not determined.

### Specific Hazards Arising from the Chemical

Product is not flammable.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures Personal Precautions Ventilate affected area. Wear protective clothing as described in Section 8 of this safety data sheet. Environmental Precautions See Section 12 for additional Ecological Information. Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material. Methods for Clean-Up Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing vapors or mists. Do not eat or drink while handling this material.

### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible Materials	None known based on information supplied.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Citric Acid 77-92-9	-	15 mg / m3 (Total)	-

### Appropriate engineering controls

**Engineering Controls** Maintain eye wash fountain and quick-drench facilities in work area.

### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Use safety goggles, safety glasses with side shields and/or a full face shield as described by OSHA's eye and face protection regulations in 29CFR 1910.133.
Skin and Body Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory Protection	Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

General Hygiene Considerations Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Clear colorless liquid Clear	Odor Odor Threshold	Faint to slight odor Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity Explosive Properties Oxidizing Properties Density Bulk Density	Values 6.0-6.4 Not determined Not determine	<u>Remarks • Method</u>	

### **10. STABILITY AND REACTIVITY**

### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **Conditions to Avoid**

Keep away from heat, sparks and open flame.

### **Incompatible Materials**

None known based on information supplied.

### **Hazardous Decomposition Products**

None known based on information supplied.

### **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Product Information	
Eye Contact	Direct contact with eyes may cause temporary irritation.
Skin Contact	Prolonged contact may cause redness and irritation.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	-	-
Sodium hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-
Citric Acid 77-92-9	= 3000 mg/kg (Rat)	-	-

### Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

CarcinogenicityBased on the information provided, this product does not contain any carcinogens or<br/>potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

Not determined

### **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static		
Sodium hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
Citric Acid 77-92-9		1516: 96 h Lepomis macrochirus mg/L LC50 static		120: 72 h Daphnia magna mg/L EC50

### Persistence/Degradability Not determined.

## Bioaccumulation

Not determined.

### Mobility

Chemical Name	Partition Coefficient
Potassium hydroxide	0.65
1310-58-3	0.83
Citric Acid	-1.72
77-92-9	

### **Other Adverse Effects**

Not determined

### **13. DISPOSAL CONSIDERATIONS**

### Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Potassium hydroxide	Toxic
1310-58-3	Corrosive
Sodium hydroxide	Toxic
1310-73-2	Corrosive

### **14. TRANSPORT INFORMATION**

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

### **15. REGULATORY INFORMATION**

### International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Phosphorous acid	Present	Х		Present		Present	Х	Present	Х	Х
Potassium hydroxide	Present	Х		Present		Present	Х	Present	Х	Х
Sodium hydroxide	Present	Х		Present		Present	Х	Present	Х	Х
Citric Acid	Present	Х		Present		Present	Х	Present	Х	Х

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

**CERCLA** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Sodium hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### **CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide	1000 lb			Х
Sodium hydroxide	1000 lb			Х

### US State Regulations

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	Х	X	Х
Sodium hydroxide 1310-73-2	Х	X	Х

### **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	Health Hazards 1 Health Hazards 1	Flammability 0 Flammability 0	Instability 0 Physical Hazards 0	<b>Special Hazards</b> Not determined <b>Personal Protection</b> D
Issue Date: Revision Date: Revision Note:	04-May-2015 06-Sept-2018 Regulatory update			

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

**End of Safety Data Sheet**