# **Safety Data Sheet**

Issue Date: April 6, 2015	Revision Date:	April 1, 2016	Versio	<b>n</b> 2
	1. IDENT	IFICATION		
Product Identifier Product Name	Steric P III			
Other means of identification SDS #	FFN: 00126			
<u>Recommended use of the chemica</u> Recommended Use	l and restrictions on use Soil Nutrient.			
Details of the supplier of the safety Supplier Address Verdesian Life Sciences, U.S., LLC. 1001 Winstead Drive, Suite 480 Cary, NC 27513	data sheet			
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	Business Phone: (800) 8 Fax Phone: (919) 535-36 INFOTRAC 1-352-323-3 1-800-535-5053 (North A	652 500 (International)		
	2. HAZARDS I	DENTIFICATION		

Appearance Light brown liquid

Physical State Liquid

Odor Slightly musty

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Mono-ammonium Phosphate	7722-76-1	Proprietary
Citric Acid	77-92-9	Proprietary

\*\*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. Get medical attention if irritation develops or persists.	
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	Drink large quantities of water or milk. Do not induce vomiting. Contact a physician.	
Most important symptoms and effe	<u>ects</u>	
Symptoms	May cause eye, skin and respiratory tract irritation.	
Indication of any immediate medical attention and special treatment needed		

# 5. FIRE-FIGHTING MEASURES

# Suitable Extinguishing Media

Notes to Physician

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

Treat symptomatically.

# 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.	
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.	
Methods and material for containn	nent and cleaning up	
Methods for Containment	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. Keep/Store away from clothing/incompatible/combustible materials. Avoid contact with skin, eyes or clothing.
Conditions for safe storage, incl	uding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** 

Strong caustics. Flammable/combustible materials.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citric Acid	-	15 mg / m3 (Total)	-
77-92-9			

# Appropriate engineering controls

Engineering Controls	Maintain eye wash fountain and quick-drench facilities in work area.
Individual protection measures, s	uch 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. Acid-resistant gloves such as rubber or neoprene.
Respiratory Protection	Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.
General Hygiene Consideratio	<b>ns</b> 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 Light brown liquid Light brown	Odor Odor Threshold	Slightly musty Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit	<u>Values</u> 3.70 Not determined Not determined Not determined n/a-liquid Not determined Not determined	<u>Remarks • Method</u>	

Vapor Pressure	Not determined
Vapor Density	Not determined
Specific Gravity	1.15
Water Solubility	Not determined
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

# **10. STABILITY AND REACTIVITY**

<u>Reactivity</u> Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to Avoid**

Incompatible Materials.

#### **Incompatible Materials**

Strong caustics. Flammable/combustible materials.

#### Hazardous Decomposition Products

None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	To the best of our knowledge, the chemical, physical and toxicological properties of this material have not been thoroughly investigated
Eye Contact	Direct contact with eyes may cause temporary irritation.
Skin Contact	May cause temporary irritation on skin contact.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Ingestion may cause irritation to mucous membranes.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Mono-ammonium Phosphate 7722-76-1	= 5750 mg/kg (Rat)	>7940 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

# Carcinogenicity

Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

# Numerical measures of toxicity

Not determined

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

# Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Citric Acid		1516: 96 h Lepomis		120: 72 h Daphnia magna
77-92-9		macrochirus mg/L LC50		mg/L EC50
		static		_

#### Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

# <u>Mobility</u>

Chemical Name	Partition Coefficient		
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.			
	14. TRANSPORT INFORMATION			
Note	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
Mono-ammonium Phosphate	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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %	
Mono-ammonium Phosphate - 7722-76-1	7722-76-1	Proprietary	1.0	

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

This product does not contain any substances regulated under applicable state right-to-know regulations

# **16. OTHER INFORMATION**

NFPA HMIS	<b>Health Hazards</b> 0 <b>Health Hazards</b> 1	Flammability 0 Flammability 0	Instability 0 Physical Hazards 0	Special Hazards Not determined Personal Protection Not determined
Issue Date: Revision Date: Revision Note:	April 6, 2015 April 1, 2016 Address Change			

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**