# **Safety Data Sheet**

Issue Date: 06-Nov-2019 Revision Date: 11-Nov-2019 Version 1

# 1. IDENTIFICATION

**Product identifier** 

Product Name Essential 1-0-1

Other means of identification

**SDS** # GRPR-017

Recommended use of the chemical and restrictions on use

Recommended Use Turf & Ornamentals

Details of the supplier of the safety data sheet

**Supplier Address** 

Douglas Plant Health - Growth Products LTD 80 Lafayette Ave White Plains, NY 10603

Emergency telephone number

**Company Phone Number** (914) 428-1316 **Emergency Telephone** (914) 428-1316

### 2. HAZARDS IDENTIFICATION

Physical state Liquid

#### 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-%
Humic Acid	68514-28-3	1-10
Ferrous EDTA	15275-07-7	1-5
Phosphoric Acid	7664-38-2	<1.0
Sodium benzoate	532-32-1	<1.0

<sup>\*\*</sup>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

# **Description of first aid measures**

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If eye irritation persists: Get medical

advice/attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**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** Rinse mouth. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything

by mouth to an unconscious person. Call a poison center or doctor/physician if you feel

unwell.

### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause skin and eye irritation. May cause nausea, vomiting, stomach ache, and

diarrhea.

### Indication of any immediate medical 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

Not determined.

#### 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**Use personal protective equipment as required.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an

absorbent material.

**Methods for Clean-Up**Reclaim where possible. Sweep up and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wear appropriate

personal protective equipment. Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or

clothing. Do not eat, drink or smoke when handling this product.

### 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
Phosphoric Acid	STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup>
7664-38-2	TWA: 1 mg/m <sup>3</sup>	(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
	_	(vacated) STEL: 3 mg/m <sup>3</sup>	STEL: 3 mg/m <sup>3</sup>

# **Appropriate engineering controls**

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Maintain eye

wash fountain and quick-drench facilities in work area.

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

**Eye/Face Protection** Wear eye/face protection. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

Skin and Body Protection Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate

skin and body protection.

**Respiratory Protection** If necessary, wear a MSHA/NIOSH-approved respirator. Refer to 29 CFR 1910.134 for

respiratory protection requirements.

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 Liquid

AppearanceNot determinedOdorNot determinedColorNot determinedOdor ThresholdNot determined

Property Values Remarks • Method

pH Not determined
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation Rate
Flammability (Solid, Gas)
Flammability Limit in Air

Not determined
Not determined
Not determined
Not determined
Not determined

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits

Vapor PressureNot determinedVapor DensityNot determinedRelative DensityNot determinedWater SolubilityNot determined

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition 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

#### 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 out of reach of children.

#### **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** May cause temporary irritation on eye contact.

**Skin Contact** Prolonged contact may cause redness and irritation.

**Inhalation** Do not inhale.

**Ingestion** May cause nausea, vomiting, stomach ache, and diarrhea.

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric Acid 7664-38-2	= 1530 mg/kg ( Rat )	= 2740 mg/kg ( Rabbit )	> 850 mg/m³ (Rat) 1 h
Sodium benzoate 532-32-1	= 4070 mg/kg ( Rat )	-	-

### Symptoms related to the physical, chemical and toxicological characteristics

**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**

The following values are calculated based on chapter 3.1 of the GHS document Values exceed classification criteria.

# 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	Crustacea
Humic Acid		128: 96 h Poecilia reticulata mg/L	
68514-28-3		LC50 static	
Phosphoric Acid 7664-38-2		3 - 3.5: 96 h Gambusia affinis mg/L LC50	4.6: 12 h Daphnia magna mg/L EC50
Sodium benzoate		100: 96 h Pimephales promelas	650: 48 h Daphnia magna mg/L
532-32-1		mg/L LC50 static 420 - 558: 96 h	EC50
		Pimephales promelas mg/L LC50	
		flow-through	

### Persistence/Degradability

Not determined.

# **Bioaccumulation**

There is no data for this product.

# **Mobility**

Chemical name	Partition coefficient
Sodium benzoate	-2.13
532-32-1	

# **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
Phosphoric Acid	Corrosive
7664-38-2	

# 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	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Humic Acid	Х	ACTIVE	Х	X		X	Х		
Ferrous EDTA					Х				
Phosphoric Acid	Х	ACTIVE	Х	Х	X	Х	Х	Х	Х
Sodium benzoate	X	ACTIVE	Х	X	X	X	X	X	X

#### 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)
Phosphoric Acid	5000 lb		RQ 5000 lb final RQ
7664-38-2			RO 2270 kg final RO

#### **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
Phosphoric Acid	5000 lb			Х

### **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phosphoric Acid	X	X	X
7664-38-2			

# **16. OTHER INFORMATION**

**Health Hazards Special Hazards** NFPA **Flammability** Instability Not determined Not determined Not determined Not determined Physical hazards **Health Hazards Personal Protection** HMIS **Flammability** Not determined Not determined Not determined Not determined

Issue Date:06-Nov-2019Revision Date:11-Nov-2019Revision Note:New product

# **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**