# **Safety Data Sheet**

Issue Date: 26-Dec-2019 Revision Date: 02-Jan-2020 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name Bloomtastic / Starter Plus 8-32-5 with Micros

Other means of identification

**SDS #** GRPR-025

Recommended use of the chemical and restrictions on use

Recommended Use Turf, Ornamentals, Agriculture

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

The classification and labeling information in this Safety Data Sheet should be viewed as provisional, as physical test data has not been performed. This SDS was created using the criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and is compliant with the Globally Harmonized System of Labeling and Classification of Chemicals (GHS).

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

# Signal Word

Danger

### **Hazard statements**

Causes skin irritation Causes serious eye damage



# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

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 doctor/physician

IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash before reuse If skin irritation occurs: Get medical advice/attention

#### Other hazards

Harmful to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Potassium hydroxide	1310-58-3	10-20
Phosphoric Acid	7664-38-2	1-10
Fe EDTA	15708-41-5	<1
Zinc EDT	14025-21-9	<1
Manganese EDTA	15375-84-5	<1
Ethylenediaminetetraacetic acid copper salt,	14025-15-1	<1
tetrahydrate		

<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**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

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

clothes and shoes. Wash contaminated clothing before reuse. 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. Immediate medical attention is required.

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

**Symptoms** Causes skin irritation and serious eye damage. May be harmful if swallowed.

# 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

Product is not flammable or combustible.

**Hazardous combustion products** Toxic or corrosive gases or vapors. Phosphorus oxides.

#### 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 protective

gloves/protective clothing and eye/face protection. 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.

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# Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong oxidizing agents. Bases. Acids.

# 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>
Phosphoric Acid 7664-38-2	STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m³ (vacated) TWA: 1 mg/m³ (vacated) STEL: 3 mg/m³	IDLH: 1000 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>

Fe EDTA TWA: 1 mg/m<sup>3</sup> Fe (vacated) TWA: 1 mg/m<sup>3</sup> Fe TWA: 1 mg/m<sup>3</sup> Fe 15708-41-5 IDLH: 100 mg/m<sup>3</sup> Cu dust and Ethylenediaminetetraacetic acid copper TWA: 1 mg/m3 Cu dust and mist salt, tetrahydrate mist 14025-15-1 TWA: 1 mg/m<sup>3</sup> Cu dust and mist Manganese EDTA (vacated) Ceiling: 5 mg/m<sup>3</sup> IDLH: 500 mg/m<sup>3</sup> Mn TWA: 1 mg/m<sup>3</sup> Mn 15375-84-5 Ceiling: 5 mg/m<sup>3</sup> Mn STEL: 3 mg/m<sup>3</sup> Mn

#### Appropriate engineering controls

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

#### 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. Reference Wiley's "Quick Selection Guide

to Chemical Protective Clothing". Refer to 29 CFR 1910.138 for appropriate skin and body

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protection.

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

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

**Appearance** Not determined Odor Not determined Color Not determined **Odor Threshold** Not determined

**Property** Values Remarks • Method

Not determined Hq Melting point / freezing point Not determined Boiling point / boiling range Not determined Flash point Not determined **Evaporation Rate** Not determined Flammability (Solid, Gas) Not determined

Flammability Limit in Air

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits **Vapor Pressure** Not determined **Vapor Density** Not determined **Relative Density** Not determined Water Solubility Not 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

Strong oxidizing agents. Bases. Acids.

# **Hazardous decomposition products**

Phosphorous oxides.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye damage.

**Skin Contact** Causes skin irritation.

Inhalation May cause irritation if inhaled.

May be harmful if swallowed. Ingestion may cause irritation of the mucous membranes, Ingestion

esophagus, and stomach.

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	<del>-</del>	-
Phosphoric Acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg ( Rabbit )	> 850 mg/m³ (Rat)1 h
Fe EDTA 15708-41-5	> 5000 mg/kg (Rat) = 5 g/kg ( Rat)	> 5000 mg/kg (Rat)	> 2.05 g/m <sup>3</sup> (Rat) 4 h
Zinc EDT 14025-21-9	= 1750 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

Based on the information provided, this product does not contain any carcinogens or Carcinogenicity

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 ...

Oral LD50 3,183.39 mg/kg **Dermal LD50** 26,000.20 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L 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
Fe EDTA 15708-41-5		100: 96 h Oncorhynchus mykiss mg/L LC50 static	
Zinc EDT 14025-21-9		685: 96 h Lepomis macrochirus mg/L LC50 static	
Ethylenediaminetetraacetic acid copper salt, tetrahydrate 14025-15-1		555: 96 h Lepomis macrochirus mg/L LC50 static	

# Persistence/Degradability

Not determined.

# **Bioaccumulation**

There is no data for this product.

### **Mobility**

Chemical name	Partition coefficient
Potassium hydroxide	0.83
1310-58-3	

# **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
Phosphoric Acid 7664-38-2	Corrosive
Zinc EDT 14025-21-9	Toxic

Ethylenediaminetetraacetic acid copper salt, tetrahydrate Toxic 14025-15-1

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# 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	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AICS
		Status		NCS					
Potassium hydroxide	Χ	ACTIVE	X	X	Χ	X	X	X	X
Phosphoric Acid	X	ACTIVE	X	X	Χ	X	X	X	X
Fe EDTA	Х	ACTIVE	Х	X		X	Χ	X	Х
Zinc EDT	Х	ACTIVE	Х	Х	Х	Х			Х
Manganese EDTA	Х	ACTIVE	Х	Х	Х	Х			Х
Ethylenediaminetetraacetic acid copper salt, tetrahydrate		ACTIVE	Х	Х	Х	Х	Х	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	1000 lb		RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ
Phosphoric Acid	5000 lb		RQ 5000 lb final RQ
7664-38-2			RQ 2270 kg final RQ

# **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

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Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Zinc EDT - 14025-21-9	14025-21-9	<1	1.0
Manganese EDTA - 15375-84-5	15375-84-5	<1	1.0
Ethylenediaminetetraacetic acid copper salt, tetrahydrate -	14025-15-1	<1	1.0
14025-15-1			

# **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide	1000 lb			Χ
Phosphoric Acid	5000 lb			Х
Zinc EDT		X		
Ethylenediaminetetraacetic acid copper salt, tetrahydrate		Х		

### **US State Regulations**

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	Х	X	X
Phosphoric Acid 7664-38-2	Х	X	X
Fe EDTA 15708-41-5			Х
Zinc EDT 14025-21-9	Х		Х
Manganese EDTA 15375-84-5	Х		X
Ethylenediaminetetraacetic acid copper salt, tetrahydrate 14025-15-1	X		Х

# **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

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### **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**