Safety Data Sheet

Category 2

Issue Date: 25-Oct-2019

Revision Date: 31-Oct-2019

Version 1

1. IDENTIFICATION

| Product identifier | |
|--------------------|------------|
| Product Name | pH Reducer |

Other means of identification SDS #

Recommended use of the chemical and restrictions on useRecommended UseAgriculture

GRPR-007

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

Serious eye damage/eye irritation

<u>Signal Word</u> Warning

Hazard statements Causes serious eye irritation



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 If eye irritation persists: Get medical advice/attention

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|---------------|---------|----------|
| Citric Acid | 77-92-9 | 30-50 |

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 | Causes serious eye irritation. |
| 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.

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. | | | |
| Conditions for safe storage, including any incompatibilities | | | | |
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. | | | |

| orage Conditions | Keep containers | tightly closed in a | a dry, cool and | well-ventilated pl |
|------------------|-----------------|---------------------|-----------------|--------------------|
| | | | | |

| Strong oxidizing agents. Strong bases | Incompatible Materials | Strong oxidizing agents. Strong bases. |
|---------------------------------------|------------------------|--|
|---------------------------------------|------------------------|--|

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 | Apply technical measures to comply with the occupational exposure limits. Maintain eye wash fountain and quick-drench facilities in work area. |
|------------------------------------|---|
| Individual protection measures, su | ch 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 Consideration | s 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 |
| Color | Not determined |

Odor Odor Threshold Not determined Not determined

| Property | Values |
|---------------------------------|----------------|
| рН | Not determined |
| 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 |
| | |

Remarks • Method

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. Strong bases.

<u>Hazardous decomposition products</u> None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| Product Information | | |
|---------------------|--------------|---|
| | Eye Contact | Causes serious eye irritation. |
| | 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 |
|---------------|-------------------------------|--------------------|-----------------|
| Citric Acid | = 3000 mg/kg (Rat) = 3 g/kg (| > 2000 mg/kg (Rat) | - |
| 77-92-9 | 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 |
|---------------|----------------------|--------------------------------|------------------------------|
| Citric Acid | | 1516: 96 h Lepomis macrochirus | 120: 72 h Daphnia magna mg/L |
| 77-92-9 | | mg/L LC50 | EC50 |

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

<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 | TSCA Inventory Status | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|---------------|------|--------------------------|----------|-------------------|------|-------|------|-------|------|
| Citric Acid | Х | 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, 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 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)

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 | Health Hazards Not determined Health Hazards Not determined | Flammability Not determined Flammability Not determined | Instability Not determined Physical hazards Not determined | Special Hazards Not determined Personal Protection Not determined |
|---|--|--|---|--|
| Issue Date: Revision Date: Revision Note: | 25-Oct-2019 31-Oct-2019 New product | | | |

<u>Disclaimer</u>

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