Section 1: IDENTIFICATION

Product Name: Rock Solid
Synonyms: Not available.
Product Use: Hydroponic plant fertilizer.
Restrictions on Use: Not available.
Manufacturer/Supplier: Growth Science Nutrients Inc.
4200 Scotts Valley Dr. Ste A
Scotts Valley, CA 95066
Phone Number: 831-600-8679
Emergency Phone: CHEMTREC: 800-424-9300
Date of Preparation of SDS: September 8, 2015

Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION
Classification: Skin Irritation, Category 2
Eye Irritation, Category 2A

LABEL ELEMENTS
Hazard Pictogram(s):

Signal Word: Warning
Hazard Statements: Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements
Prevention: Wash thoroughly after handling.
Wear protective gloves, protective clothing and eye protection.

Response: IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Storage: Not applicable.
Disposal: Not applicable.
Hazards Not Otherwise Classified: Not applicable.
Ingredients with Unknown Toxicity: None.
Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>Common name / Synonyms</th>
<th>CAS No.</th>
<th>% wt./wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>Not available.</td>
<td>7664-38-2</td>
<td>2.5 - 4.5</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>Not available.</td>
<td>1310-58-3</td>
<td>2 - 4</td>
</tr>
</tbody>
</table>

Section 4: FIRST-AID MEASURES

**Inhalation:**
If inhaled: Call a poison center or doctor if you feel unwell.

**Acute and delayed symptoms and effects:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Inhalation of high concentrations of Potassium hydroxide can cause lung damage.

**Eye Contact:**
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.

**Acute and delayed symptoms and effects:** Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin Contact:**
If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**Acute and delayed symptoms and effects:** Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Ingestion:**
If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Acute and delayed symptoms and effects:** May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**General Advice:**
In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

**Note to Physicians:**
Symptoms may not appear immediately.
Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION
Not flammable or combustible by OSHA/WHMIS criteria.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.
Sensitivity to Static Discharge: This material is not sensitive to static discharge.

MEANS OF EXTINCTION
Suitable Extinguishing Media: Use appropriate extinguishing media for surrounding fire.
Unsuitable Extinguishing Media: Not available.
Protection of Firefighters: Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Do not touch or walk through spilled material. Use personal protection recommended in Section 8.
Environmental Precautions: Keep out of drains, sewers, ditches, and waterways.
Methods for Containment: Stop leak if without risk. Do not flush to sewer or allow to enter waterways.
Methods for Clean-Up: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Other Information: See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Handling: Do not swallow. Wash thoroughly after handling. See Section 8 for information on Personal Protective Equipment.

Storage: Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.
Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component

Phosphoric acid [CAS No. 7664-38-2]
- ACGIH: 1 mg/m³ (TWA); 3 mg/m³ (STEL); (1992)
- OSHA: 1 mg/m³ (TWA); 3 mg/m³ (STEL) [Vacated]

Potassium hydroxide [CAS No. 1310-58-3]
- ACGIH: 2 mg/m³ (C); (1992)
- OSHA: 2 mg/m³ (C) [Vacated]

TWA: Time-Weighted Average

Engineering Controls: Not normally required.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear safety glasses. Ensure that eyewash stations are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.


Skin and Body Protection: Wear protective clothing.

Respiratory Protection: Not required under normal use conditions. or self-contained breathing apparatus must be used.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid.

Colour: Colourless.

Odour: Like citrus.

Odour Threshold: Not available.

Physical State: Liquid.
pH: 6.9

Melting Point / Freezing Point: Not available.

Initial Boiling Point: Not available.

Boiling Range: Not available.

Flash Point: Not available.

Evaporation Rate: Not available.

Flammability (solid, gas): Not applicable.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Relative Density: Not available.

Solubilities: Soluble in water.

Partition Coefficient: n-Octanol/Water: Not available.

Auto-ignition Temperature: Not available.

Decomposition Temperature: Not available.

Viscosity: Not available.

Percent Volatile, wt. %: Not available.

VOC content, wt. %: Not available.

Density: Not available.

Coefficient of Water/Oil Distribution: Not available.

**Section 10: STABILITY AND REACTIVITY**

Reactivity: Contact with incompatible materials. Sources of ignition. Exposure to heat.

Chemical Stability: Stable under normal storage conditions.

Possibility of Hazardous Reactions: Not available.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to heat.


Hazardous Decomposition Products: Not available.
### Section 11: TOXICOLOGICAL INFORMATION

#### EFFECTS OF ACUTE EXPOSURE

**Product Toxicity**

**Oral:** Not available.

**Dermal:** Not available.

**Inhalation:** Not available.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>LD$_{50}$ oral (rat)</th>
<th>LD$_{50}$ dermal (rabbit)</th>
<th>LC$_{50}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>7664-38-2</td>
<td>1530 mg/kg</td>
<td>2740 mg/kg</td>
<td>&gt; 850 mg/m$^3$ (rat), 1H</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>273 mg/kg</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Likely Routes of Exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system.

**Symptoms (including delayed and immediate effects)**

**Inhalation:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Inhalation of high concentrations of Potassium hydroxide can cause lung damage.

**Eye:** Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin:** Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Ingestion:** May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Skin Sensitization:** Not available.

**Respiratory Sensitization:** Not available.

**Medical Conditions Aggravated By Exposure:** Not available.

#### EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Carcinogenicity:** This product does not contain any carcinogens or potential carcinogens as listed by ACGIH, IARC, OSHA, or NTP.

**Mutagenicity:** Not available.

**Reproductive Effects:** Not available.

**Developmental Effects**

**Teratogenicity:** Not available.

**Embryotoxicity:** Not available.
Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.
Persistence / Degradability: Not available.
Bioaccumulation / Accumulation: Not available.
Mobility in Environment: Not available.
Other Adverse Effects: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)
Proper Shipping Name: Not regulated.
Class: Not applicable.
UN Number: Not applicable.
Packing Group: Not applicable.
Label Code: Not applicable.

Canada Transportation of Dangerous Goods (TDG)
Proper Shipping Name: Not regulated.
Class: Not applicable.
UN Number: Not applicable.
Packing Group: Not applicable.
Label Code: Not applicable.

Section 15: REGULATORY INFORMATION

Federal Regulations
United States
This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III
Component | Section 302 (EHS) | Section 304 EHS | CERCLA A RQ (lbs.) | Section 313 | RCRA CODE | CAA 112( r ) TQ (lbs.)
--- | --- | --- | --- | --- | --- | ---
Phosphoric acid | Not listed. | Not listed. | 5000 | Not listed. | Not listed. | 10000
Potassium hydroxide | Not listed. | Not listed. | 1000 | 313 | Not listed. | Not listed.
State Regulations
Massachusetts
US Massachusetts Commonwealth’s Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>RTK List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>7664-38-2</td>
<td>Listed.</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>Listed.</td>
</tr>
</tbody>
</table>

New Jersey
US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>RTK List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>7664-38-2</td>
<td>SHHS</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>SHHS</td>
</tr>
</tbody>
</table>

Note: SHHS = Special Health Hazard Substance

Pennsylvania
US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>RTK List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>7664-38-2</td>
<td>E</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>E</td>
</tr>
</tbody>
</table>

Note: E = Environmental Hazard

California
California Prop 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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**Section 16: OTHER INFORMATION**

**Disclaimer:**
The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.

**Date of Preparation of SDS:** September 8, 2015

**Version:** 2.0

**GHS SDS Prepared by:** Aegis Regulatory Inc.
Phone: (519) 488-0351
www.aegisreg.com