

**Material Safety Data Sheet****SECTION 1 - IDENTIFICATION OF PREPARATION****Product name:**

Genesis Formula pH Lower

**Item ID:**

PHL

**Application:**

Hydroponic Solutions

**Manufacturer Identification:**Green Air Products, Inc.  
PO Box 1410  
Boring, OR 97009**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS****Chemical composition:**

Phosphoric Acid - 40-45%

**Chemical Information:**CAS No.: 7664-38-2 , EINECS:  
OSHA-PEL: 1 mg/m3 Ceiling  
ACGIH-TLV: 1 mg/m3 TWA, 3 mg/m3 STEL  
NIOSH-REL: 3 mg/m3 TWA**SECTION 3 - HAZARD IDENTIFICATION/HEALTH EFFECTS**

Overdose can result in nausea and vomiting with severe abdominal pain and severe conjunctivitis, which may result in permanent damage. Prolonged contact with acid mist can result in severe respiratory irritation.

**SWALLOWED:**

Ingestion may result in irritation and burning of mucous membranes and/or gastrointestinal tract.

**EYE:**

Contact will produce severe irritation. Prolonged contact may result in permanent eye damage.

**SKIN:**

Contact may produce mild to severe irritation. Prolonged contact may result in chemical burns.

**INHALED:**

Inhalation of acid mist may produce mild to severe irritation of respiratory tract.

**CARCINOGENICITY:**

This material is not listed (IARC, NTP, OSHA) as a cancer causing agent.

**SECTION 4 - FIRST AID MEASURES****SWALLOWED:**

If conscious, immediately rinse mouth with water and give water or milk to drink. DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Seek immediate medical attention.

**EYE:**

Immediately irrigate with copious quantities of water for at least 15 minutes with eyelids held open. Seek immediate medical attention.

**SKIN:**

Remove contaminated clothing. Wash affected areas with large amounts of water. If irritation develops seek immediate medical attention.

**INHALED:**

Remove victim from exposure. Remove contaminated clothing. Allow victim to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing is labored, ensure airways are clear and administer oxygen. If breathing has stopped, administer artificial respiration immediately. Seek immediate medical attention.

**NOTE TO PHYSICIAN:**

Treat symptomatically as indicated for exposure to strong acids.

### SECTION 5 - FIRE FIGHTING MEASURES

**FLAMMABILITY:**

Non-flammable. Not a fire hazard.

**EXTINGUISHING MEDIA:**

Use media suitable to extinguish source of fire.

**Firefighters should wear self contained breathing apparatus and full protective clothing when fighting fire if mists from fire are encountered.**

**HAZARDOUS DECOMPOSITION MATERIALS:**

High temperatures will liberate phosphorus oxides

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**In case of accidental spill or release:**

Dike around spill for containment and recover for re-processing. Small spills can be safely neutralized with limestone or soda ash. Caustic soda should be avoided because of excessive reactivity.

### SECTION 7 - HANDLING AND STORAGE

**HANDLING:**

Do not breathe vapor. Do not get in eyes, on skin, or on clothing . Wear protective equipment as indicated. When diluting, the acid should always be slowly poured into the water.

**STORAGE:**

Store in a cool, well-ventilated place away from sources of heat, moisture or incompatible materials. Store away from strong alkaline materials. Protect from freezing. Corrosive to steel and other metals.

### SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

**ENGINEERING CONTROLS:**

Provide local and/or general exhaust ventilation to keep exposure level below the OSHA standard. Local exhaust ventilation is preferred because it can control the emissions of the contaminants at its source, preventing its dispersion into the general work area.

**PERSONAL PROTECTION:**

Avoid skin and eye contact and inhalation of mist. Wear overalls, safety glasses or goggles and face shield, chemical resistant gloves, chemical suit and boots. Respiratory protection is required if airborne concentration is high or unknown. Use a respirator if there is a risk of inhaling mist spray. Always wash hands before smoking, eating, drinking or using the toilet.

### SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

**APPEARANCE and ODOR:**

Clear viscous liquid, odorless

**AUTOIGNITION TEMPERATURE:**

N/A

**BOILING POINT:**

270°F (132°C)

**EXPLOSION LIMITS:**

N/A

**FLASH POINT:**

N/A

**FREEZING POINT**

12°F (-11°C)

**MELTING POINT:**

N/A

**pH:**

1.05

**SOLUBILITY IN WATER:**

Completely soluble in water

**SPECIFIC GRAVITY:**

1.176

**VAPOR DENSITY:**

not available

**VAPOR PRESSURE:**

5 mm Hg at 78°F (26°C)

## SECTION 10 - STABILITY AND REACTIVITY

**STABILITY:** Stable  
**REACTIVITY:** Exothermic reaction with water. Avoid contact with strong alkalis producing heat. Contact with metals may result in severe corrosion of the metal and liberate hydrogen gas.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** Oral LD50 (rat) > 1530 mg/kg; Dermal LD50 (rat) > 3160 mg/kg; LC50 61-1689 mg/m<sup>3</sup>, highly toxic through inhalation.

## SECTION 12 - ECOLOGICAL INFORMATION

**AVOID CONTAMINATING WATERWAYS:** Low toxicity to aquatic life. Do not contaminate any waterway or body of water by disposal or cleaning of equipment.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**DISPOSAL:** Collect and reprocess where possible. Neutralize with limestone or soda ash. Dispose of all waste materials and containers in accordance with all Federal, State and local regulations.

## SECTION 14 - TRANSPORT INFORMATION

**DOT Proper Shipping Name:** Phosphoric acid, liquid  
**IMDG class:** 8  
**DOT ID No:** UN1805  
**Packaging group:** III  
**PLACARD:** Corrosive  
**LABEL:** Corrosive

## SECTION 15 - REGULATORY INFORMATION

**TSCA INVENTORY:** CERCLA RQ = 5000 LBS (2270 KG)  
**OSHA FLOOR LIST:** Yes  
**SARA 313 / 40 CFR Part 372:** Yes

## SECTION 16 - OTHER INFORMATION

**Emergency telephone number:** **1-800-669-2113 Mon-Fri, 7:30AM - 5:00PM PST**  
*For immediate response during non-business hours, please contact your local poison control center for more information.*

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Rev. Date: 3/05/2020