Material Safety Data Sheet

Manufacturer: Green Air Products, Inc.
Product Name: PH Down
Product Number: 93302
Size: 32oz

SECTION 1 - IDENTIFICATION OF PREPARATION

Product name:	**Item ID:**
Genesis Formula pH Lower	PHL
Application:	
Hydroponic Solutions	
Manufacturer Identification:	Green Air Products, Inc. PO Box 1318 Gresham, OR 97030

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical composition:	**Chemical Information:**
Phosphoric Acid - 40-45%	CAS No.: 7664-38-2 , EINECS: OSHA-PEL: 1 mg/m3 Ceiling ACGIH-TLV: 1 mg/m3 TWA, 3 mg/m3 STEL NIOSHA-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 stronge 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:	Exothermal reaction with water. Avoid contact with strong alkalies 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/m3, 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.

Rev. Date: 9/20/06