

Trade Name/Synonym : **Dyna-Gro pH Down**
 Date Prepared : June 1, 2009
 Chemical Name : Mixed Liquid Specialty pH Control
 Formula : Mixture (see Section 3: Ingredients)

Section 1: Manufacturer or Supplier

Dyna-Gro Nutrition Solutions, 2775 Giant Road, Richmond, CA 94806, 800-396-2476, Emergency (510) 233-0254

Section 2: Hazardous Ingredients

Ingredient	Formula	%	CAS#	Exposure limits in air:
				ACGIH TLV: OSHA PEL:
Phosphoric Acid	H ₃ PO ₄	33%	7664-38-2	8 hr TWA 1 mg/m ³
Nitric Acid	HNO ₃	11.5%	7697-37-2	8 hr TWA 5 mg/m ³

Section 3: Physical Data

Physical State at STP : Liquid	Percent Volatile : Complete
Boiling Point : 236° F	Vapor Pressure : 0.31 mm/Hg
Specific Gravity : 1.26	Solubility in Water . . . : Miscible
Vapor Density : 13.3	Melting Point : -3° F
Evaporation Rate : N/A	Appearance & Odor . . . : Clear odorless liquid

Section 4: Fire & Explosion Hazard Data

Flash Point : Non Flammable
 Auto-Ignition Temp. (Lower) : N/A
 Auto-Ignition Temp. (Upper) : N/A
 Flammable Limits in Air : N/A
 Extinguishing Media to Use : Dry Chemicals, CO₂, Water or Water Base Foam
 Special Fire Fighting Equipment : Wear protective clothing & breathing unit
 Unusual Fire & Explosion Risk : Corrosive – Avoid contact with skin or eyes. Do not breathe.

Section 5: Reactivity Hazard Data

Stability : Stable
 Incompatibility : Can react with metals to liberate hydrogen, a flammable gas. Corrosive to many metals such as iron, copper, brass or bronze.
 Hazardous Decomposition : Hydrogen
 Conditions to Avoid : Contact with some metals may produce hydrogen, which can form flammable mixtures in air.
 Hazardous Polymerization : Polymerization will not occur.

Section 6: Health Hazard Data

Effects of Over-Exposure: Prolonged contact with skin may cause burning. Contact with eyes and respiratory tract may cause burning. If swallowed, may cause distress, cramping, vomiting and hypertension.

Health Hazards: Acute: Burns to skin, eyes and nasal passages, cramps and vomiting if swallowed.
 Chronic: Irritation to skin and mucus membranes.

Carcinogenicity: Not a carcinogen.

Section 6: Health Hazard Data - continued

Emergency First Aid:

- If Swallowed : Give several glasses of water, milk or milk of magnesia. Induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
- Skin Exposure : Remove any contaminated clothing. Wash skin with soap and water for 15 minutes. Flush area with mild sodium bicarbonate solution. Get medical attention if irritation persists.
- Eye Exposure. : Immediately flush eyes with plenty of water for 15 minutes. Call a physician.
- If Inhaled : Remove to fresh air. Call a physician.

Section 7: Spill or Leak Procedures

- Environmental Hazard : None
- Steps to take if Spill Occurs. : Cover contaminated surface with sodium bicarbonate or soda ash-slaked lime; mix and add enough water to form a slurry. Scoop up slurry, store in overpac drums.
- Waste Disposal Method : Dispose of all waste according to local, state and federal regulations. Mix with water and dispose of in approved landfill.

Section 8: Special Protection Information

- Respiratory Protection : Self-contained breathing apparatus
- Ventilation : Local and mechanical
- Eye Protection : Safety goggles
- Protective Gloves. : Rubber
- Other Protective Equipment : Non-absorbent clothing and rubber boots.

Section 9: Handling & Storage Conditions

- Storage Temperature (Min./Max.) : 35 °F / 95° F
- Shelf Life : Indefinite
- Precautionary Labeling : Corrosive
- Handling Precautions : Do not drink, get in eyes, on skin or on clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling.
- Storage Precautions : Keep in tightly closed container. Loosen container cautiously. Store in a well ventilated area away from organic chemicals, strong bases, metal powders, carbides, sulfides and other readily oxidizable materials.

Section 10: Transport Information (over 1 liter)

- DOT Classification. : Class 8; Corrosive
- Identification : Corrosive liquids, N.O.S., UN1760, PG II (contains Nitric Acid & Phosphoric Acid)

The information contained herein is provided in good faith and is believed to be correct and equivalent to OSHA Form 174, as of the date hereof, but is issued without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.