

Trade Name/Synonym : **Dyna-Gro Liquid Nutrients; Grow, Bloom, All-Pro, Foliage-Pro, Orchid-Pro, Bonsai-Pro, Hi-N-Pro, Mag-Pro**
 Date Prepared : June 1, 2009
 Chemical Name : Mixed Liquid Specialty Fertilizer
 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

Contains no hazardous mixtures

Section 3: Physical Data & Ingredients

Physical State at STP : Liquid	Percent Volatile : N/A
Boiling Point : 312° F	Vapor Pressure : 0.22 mm/Hg
Specific Gravity : 1.43	Solubility in Water : Miscible
Vapor Density : 13.3	Melting Point : 26.4° F
Evaporation Rate : N/A	Appearance & Odor : Light yellow to dark green odorless liquid

Chemical or Common Name	Formula	%	CAS#	Exposure limits in air: ACGIH TLV: OSHA PEL :
Mono-Ammonium Phosphate	NH ₄ H ₂ PO ₄	<10%	7722-76-1	Not Established
Mono-Potassium Phosphate	KH ₂ PO ₄	<6%	7778-77-0	Not Established
Magnesium Sulfate	MgSO ₄	<1%	10034-99-8	Not Established
Ammonium Nitrate	NH ₄ NO ₃	<10%	6484-52-2	Not Established
Calcium Nitrate	Ca(NO ₃) ₂	<6%	13477-34-4	Not Established
Potassium Nitrate	KNO ₃	<10%	7757-79-1	Not Established
Phosphoric Acid	H ₃ PO ₄	<6%	007-664-382	1 mg/m ³
Cobaltous Sulfate	CoSO ₄	<0.01%	10026-24-1	0.1 mg (CO)/m ³
Manganese EDTA	Mn EDTA	<0.1%	15708-48-2	5.0 mg/m ³
Iron EDTA	Fe EDTA	<0.1%	15708-41-5	Not Established
Copper EDTA	Cu EDTA	<0.01%	67989-88-2	1.0 mg/m ³
Zinc EDTA	Zn EDTA	<0.01%	14025-48-2	10 mg/m ³
Boric Acid	H ₃ BO ₃	<0.01	10043-35-3	Not Established
Molybdc Acid	H ₂ Mo ₃	<0.01%	7782-91-4	5.0 mg (Mo)/m ³ (TWA)
Potassium Chloride	KCl	<0.1%	7747-40-7	Not Established

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

Section 5: Reactivity Hazard Data – continued

- 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 irritation. Contact with eyes and respiratory tract may cause irritation. 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.

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 : Wash skin with soap and water for 15 minutes. Flush area with mild sodium bicarbonate solution. Get medical attention if irritation develops or 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 the contaminated surface with sodium bicarbonate or a soda ash-slaked lime; mix and add water if necessary 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
- 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.

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.