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**Material Safety Data Sheet**  
March 1, 2002

Chemical Name : Mixed Liquid Specialty Fertilizer  
 Formula : Mixture (see Section 3: Ingredients)  
 Trade Name/Synonym : **Dyna-Gro Liquid Nutrients, ~~Grow, Bloom, Pro-Series~~**  
 CAS Number (s) : Mixture (see Section 3: Ingredients)

**Section 1: Manufacturer or Supplier**

Dyna-Gro Nutrition Solutions™ 1065 Broadway, San Pablo, CA 94806, (800) 396-2476 or (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

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

### Section 5: Health Hazard Data—continued

#### Health Effects or Risks from Exposure

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

#### Emergency First Aid:

If Swallowed: Induce vomiting immediately giving two glasses of water, milk or milk of magnesia. 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 at least 15 minutes. Call a physician.  
If Inhaled: Remove to fresh air. Call a physician.

### Section 6: Reactivity Hazard Data

Suspected Cancer Agent (2009): Not a carcinogen.  
Conditions to Avoid (2009): Skin & eye contact, do not breathe, do not drink.  
Stability (2009): Stable  
Hazardous Polymerization (2009): Polymerization will not occur.  
Hazardous Decomposition (2009): Contact with some metals may produce hydrogen, which can form flammable mixtures in air.  
Incompatibility—Materials to Avoid (2009): Can react with metals to liberate hydrogen, a flammable gas. Corrosive to many metals such as iron, copper, brass or bronze.

### Section 7: Spill or Leak Procedures

Steps to take if Spill Occurs (2009): 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 (2009): 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 (2009): Self-contained breathing apparatus  
Ventilation (2009): Local and mechanical  
Eye Protection (2009): Safety goggles  
Protective Gloves (2009): Rubber  
Other Protective Equipment (2009): Non-absorbent clothing and rubber boots.

### Section 9: Special Precautions

Precautionary Labeling (2009): Corrosive

Other Handling & Storage Conditions: Do Not drink, get in eyes, on skin or on clothing. Avoid breathing vapor. Keep in tightly closed container. Loosen container cautiously. Wash thoroughly with soap and water after handling. Store in a well ventilated area, away from organic chemicals, strong bases, metal powders, carbides, sulfides and other readily oxidizable materials.