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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 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	3 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
Molybdic Acid	H ₂ Mo ₇	<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: 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 mucous 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 (Section 302.4): Not a carcinogen.

Conditions to Avoid (Section 302.5): Skin & eye contact, do not breathe, do not drink.

Stability (Section 302.6): Stable

Hazardous Polymerization (Section 302.7): Polymerization will not occur

Hazardous Decomposition (Section 302.8): Contact with some metals may produce hydrogen, which can form flammable mixtures in air.

Incompatibility—Materials to Avoid (Section 302.9): 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 (Section 304.1): 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 (Section 304.2): 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 (Section 305.1): Self-contained breathing apparatus

Ventilation (Section 305.2): Local and mechanical

Eye Protection (Section 305.3): Safety goggles

Protective Gloves (Section 305.4): Rubber

Other Protective Equipment (Section 305.5): Non-absorbent clothing and rubber boots.

Section 9: Special Precautions

Precautionary Labeling (Section 306.1): Corrosive

Other Handling & Storage Conditions (Section 306.2): 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.