



Safety Data Sheet

GROW - Premium 3-Part Nutrient Series

SECTION 1. IDENTIFICATION

Product Identifier	Grow
Other Means of Identification	Nitrates and inorganic minerals in aqueous solution.
Recommended Use	Hydroponic plant nutrients.
Restrictions on Use	<i>Not Applicable</i>
Initial Supplier Identifier	Emerald Harvest 1399 Corporate Center Parkway Santa Rosa, California 95407 USA Telephone: +1 866-325-8235
Emergency Telephone Number	Tel: 1-707-799-7336 Hours: Monday to Friday, 9:00 am to 5:00 pm.

SECTION 2. HAZARD IDENTIFICATION

GHS Classification	<i>Not classified as hazardous under OSHA/HPR/GHS as per Emerald Harvest.</i>
Label Elements Pictograms	<i>Not Applicable</i>
Signal Word	<i>Not Applicable</i>
Hazard Statements	May cause eye irritation.
Precautionary Statements	
Prevention:	P264 – Wash hands thoroughly after handling.
Response:	P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 – If eye irritation persists: Get medical advice/attention.
Storage:	<i>Not Applicable</i>
Disposal:	<i>Not Applicable</i>
Other Hazards	<i>Not Applicable</i>
NOTES	SDS is to be retained and available for use by employees and other users of the product.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms
Monopotassium Phosphate	7778-77-0	0.5 - 5%	<i>Not Applicable</i>
Potassium Sulfate	7778-80-5	0.5 - 5%	<i>Not Applicable</i>
Magnesium Sulfate	7487-88-9	0.5 - 1%	<i>Not Applicable</i>
Potassium Nitrate	7757-79-1	0.5 - 5%	<i>Not Applicable</i>
Mono Ammonium Phosphate	7722-76-1	0.5 - 5%	<i>Not Applicable</i>
Magnesium Nitrate	10377-60-3	0.5 - 5%	<i>Not Applicable</i>
Ammonium Nitrate	6484-52-2	0.5 - 1%	<i>Not Applicable</i>
Ammonium Sulfate	7783-20-2	0.5 - 1%	<i>Not Applicable</i>

Non-hazardous ingredients or those below disclosure requirements	<i>Not applicable</i>	72 - 96%	<i>Not Applicable</i>
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Notes	
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SECTION 4. FIRST-AID MEASURES

Inhalation	If breathed in, move person into fresh air. If concerned, seek medical attention.
Skin Contact	Rinse with plenty of water. If concerned, seek medical attention.
Eye Contact	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if easily possible. If irritation persists, get medical attention.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If large amounts are ingested, get medical attention immediately.
Most Important Symptoms and Effects, Acute and Delayed	Acute: EYE CONTACT: May cause irritation, itching, redness, watering. Chronic: <i>Not Applicable</i>
Immediate Medical Attention and Special Treatment	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media	Not flammable, use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media	<i>Not Applicable</i>
Flammability classification (OSHA 29 CFR 1910.106)	Not flammable.
Hazardous Combustion Products	Oxides of phosphorus, sulfur, other non-identified oxides.
Specific Hazards Arising from the Product	<i>Not applicable.</i>
Special Protective Equipment and Precautions for Fire-Fighters	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	Implement spill control plan. All persons dealing with the clean-up should be trained and wear the appropriate personal protective equipment. Do not touch spilled product. Ensure adequate ventilation. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
Methods for Containment and Cleaning Up	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate area of release. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into an appropriate container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep containers closed when not in use.
Conditions for Safe Storage	Store in a cool, dry, well ventilated area, away from incompatibles. Inspect periodically for damage or leaks. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Keep in original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	NIOSH REL
Monopotassium Phosphate	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>
Potassium Sulfate	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>
Magnesium Sulfate	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>
Potassium Nitrate	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>
Mono Ammonium Phosphate	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>
Magnesium Nitrate	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>
Ammonium Nitrate	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>
Ammonium Sulfate	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>	<i>Not Established</i>

Notes	*Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.
Appropriate Engineering Controls	Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
Individual Protection Measures	
Eye/Face Protection	Not normally required. Wear eye protection if usage may cause splashing. Wearing contact lenses is not recommended.
Skin Protection	Not required under normal conditions of use. Wash after use.
Respiratory Protection	Not required under normal conditions of use. Do not breathe concentrated product.
Other	An eyewash station should be made available in the immediate working area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Green Liquid	Relative Density (water = 1)	9.53 lb/gal at 68°F (1.14 kg/L at 20°C)
Odour	<i>Not Available</i>	Solubility in Water	Soluble
Odour Threshold	<i>Not Available</i>	Solubility in Other Liquids	<i>Not Available</i>
pH	4.5 - 6.5	Partition Coefficient, n-Octanol / Water (Log Kow)	<i>Not Available</i>
Melting Point and Freezing Point	<i>Not Available</i>	Auto-ignition Temperature	<i>Not Available</i>
Initial Boiling Point and Boiling Range	<i>Not Available</i>	Decomposition Temperature	<i>Not Available</i>
Flash Point	None up to 100°C (PMCC)	Viscosity	<i>Not Available</i>
Evaporation Rate	<i>Not Available</i>	Flammability (solid, gas)	<i>Not Applicable (Liquid)</i>
Vapour Density (air = 1)	<i>Not Available</i>	Upper and Lower Flammability or Explosive Limit	<i>Not Applicable</i>

Vapour Pressure	Not Available	Sensitivity to Static/Impact	Not Sensitive
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SECTION 10. STABILITY AND REACTIVITY

Reactivity	Not known or expected.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Avoid contact with incompatible materials.
Incompatible Materials	Oxidizing materials, acids, bases.
Hazardous Decomposition Products	On combustion, forms toxic fumes/oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

☐ Inhalation ☒ Skin contact ☒ Eye contact ☒ Ingestion

Acute Toxicity	
LC50 (inhalation)	Potassium Nitrate - LC ₅₀ - 0.527 mg/L (Rat - 4h)
	Magnesium Sulfate - LC ₅₀ - >2000 mg/L (Rabbit - 4h)
LD50 (oral)	Magnesium Sulfate - LC ₅₀ - >2000 mg/kg (Rat)
	Monopotassium Phosphate - LC ₅₀ - > 2000 mg/kg (Rat)
	Ammonium Phosphate Monobasic - LC ₅₀ - > 2000 mg/kg (Rat)
	Potassium Sulfate - LC ₅₀ - 6600 mg/kg (Rat)
	Ammonium Nitrate - LC ₅₀ - 2950 mg/kg (Rat)
	Ammonium Sulfate - LC ₅₀ - 4250 mg/kg (Rat)
	Potassium Nitrate - LC ₅₀ - >5000 mg/kg (Rat)
LD50 (dermal)	Monopotassium Phosphate - LC ₅₀ - >4640 mg/kg (Rabbit)
	Ammonium Phosphate Monobasic - LC ₅₀ - > 5000 mg/kg (Rat)
	Ammonium Nitrate - LC ₅₀ - >5000 mg/kg (Rat)
	Ammonium Sulfate - LC ₅₀ - >2000 mg/kg (Rat)
	Not acutely toxic based on human or animal evidence.
Notes	
Skin Corrosion / Irritation	Not Expected.
Serious Eye Damage / Irritation	Redness. Pain. Tearing. Will be transient.
Inhalation	Not Expected.
Ingestion	Not Expected.
STOT (Specific Target Organ Toxicity) - Single Exposure	Not Expected.
Aspiration Hazard	Not reported.
STOT (Specific Target Organ Toxicity) - Repeated Exposure	Not Expected.
Respiratory and/or Skin Sensitization	Not known to be a sensitizer.

Carcinogenicity	IARC reports inadequate evidence for classification as human carcinogen.
Notes	Target Organs: Eyes.
Reproductive Toxicity	
Development of Offspring	Not reported.
Sexual Function and Fertility	Not reported.
Effects on or via Lactation	Not reported.
Germ Cell Mutagenicity	Not expected to be a mutagen.
Interactive Effects	Not reported.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be toxic to the aquatic environment.		
	Ingredient	Species	LC/EC₅₀
	Potassium Nitrate	Guppy	1378 mg/L - 96h
		Water Flea	490 mg/L - 48h
		Nitzschia sp.	>1400 mg/L - 72h
	Ammonium Nitrate Magnesium Sulfate	Carp	447 mg/L - 96h
		Fathead Minnow	2820 mg/L - 96h
		Water Flea	343.56 mg/L - 48h
		Green Algae	2700 mg/L - 72h
	Ammonium Sulfate	Golden Orfe	> 460 mg/L - 96h
		Water Flea	129 mg/L - 48h
Persistence and Degradability	Not expected.		
Bioaccumulative Potential	Not expected to bioaccumulate.		
Mobility in Soil	<i>Not Available</i>		
Other Adverse Effects	<i>Not Available</i>		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods	Canadian Environmental Protection Act: All ingredients are listed in the DSL. Dispose of in accordance with all federal, provincial/state, and local regulations. Consult with your local supplier for additional information.
RCRA	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
Canadian TDG Regulations*					
49 CFR/DOT*					

IATA Regulations*					
IMDG Code*					
Note:					
Notes: *NOT REGULATED FOR TRANSPORT					

SECTION 15. REGULATORY INFORMATION

US Federal Information						
Components listed below are present on the following U.S. Federal chemical lists:						
Ingredients	CAS Number	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313	
					Form R - Reporting Requirements	Supplier Notification
Monopotassium Phosphate	7778-77-0	Yes	No	No	No	No
Potassium Sulfate	7778-80-5	Yes	No	No	No	No
Magnesium Sulfate	7487-88-9	Yes	No	No	No	No
Potassium Nitrate	7757-79-1	Yes	No	No	No	No
Mono Ammonium Phosphate	7722-76-1	Yes	No	No	No	No
Magnesium Nitrate	10377-60-3	Yes	No	No	No	No
Ammonium Nitrate	6484-52-2	Yes	No	No	Yes	Yes
Ammonium Sulfate	7783-20-2	Yes	No	No	No	No

Safety, Health and Environmental Regulations	Canadian Environmental Protection Act (CEPA): All components of this product are on the Canadian DSL.
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NFPA Ratings	Hazard or Risk Scale (0 = minimal, 4 = Significant)	HMIS Ratings	Hazard or Risk Scale (0 = minimal, 4 = Significant)
Health	1	Health	1
Flammability	0	Flammability	0
Reactivity	0	Physical Hazards	0
Specific Hazard	0	Personal Protection	X

SECTION 16. OTHER INFORMATION

Date of Creation	May 16, 2018
Date of Latest Revision	December 13, 2018
Disclaimer	This Safety Data Sheet (SDS) was prepared by iHazmat Regulatory Ltd., using information provided by the above supplier. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

***SDS compliant with WHMIS 2015 and OSHA HAZCOM 2012**

Emerald Harvest – Grow – Professional 3-Part Nutrient Series - SDS

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