(EN) EC FERTILIZER

SAFETY DATA SHEET



1.	Identification of the Product and the Company					
	Product Name Manufacturer	:	Hydro B House and Garden Inc. 4700 West End Rd. Arcata, CA 95521			
	Emergency Phone Recommended Use	:	USA House and Garden: (707) 382-9636 24-hour Poison Control Center: (800) 222-1222 24-hour HAZMAT Emergency Response: (888) 255-3924 Liquid plant putrient concentrate			
2		:	Liquid plant nutrient concentrate			
2.	Hazard(s) Identification Classifications: Skin Irritation – Category 2 (irritation or minor reversible injury possible) Acute toxicity, Oral (Category 5) Acute toxicity, Dermal (Category 5)					
	Pictograms:					
	Signal word: Warning					
	Hazard Statements: H303 May be harmful if swallowed					
	Precautionary Statements:P102P102Keep out of reach of childrenP261Avoid breathing mist or sprayP262Do not get in eyes, on skin, or on clothingP264Wash skin thoroughly after handlingP280Wear protective gloves, eye protection, and face protection					
	 Storage: Avoid overheating or storing in temperatures below 45°F (7.2°C). Disposal: Dispose of contents and containers in accordance with all federal, state, and local regulations. 					
3.	Composition / Informa Chemical Description Description Hazardous Ingredients	ation on In : : :	ngredients Mixture Mixture of compounds listed below. Nitric Acid* (CAS Number: 7697-37-2) Potassium Hydroxide* (CAS Number: 1310-58-3) Phosphoric Acid Anhydride* (CAS Number: 7664-38-2) Magnesium Sulfate* (CAS Number: 7487-88-9)			
			*Percent concentrations withheld because they are a trade secret.			
4.	First Aid Measures Inhalation	persor	toms may include coughing or dyspnoea. Move person to fresh air. If is not breathing, contact local emergency services and then give ial respiration. Call a doctor or poison control center for treatment e.			

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		 : Symptoms may include skin irritation. Remove contaminated clothing, thoroughly wash exposed area with water and soap for 15 minutes. Call a doctor or poison control center for treatment advice if symptoms persist. : Irritant. Hold eye open and rinse gently with water for at least 15 minutes, ensuring to flush underneath the eyelids. Call a doctor or poison control center for treatment advice.
	-	 : Gastro-intestinal irritant. Call a doctor or poison control center for immediate treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless advised to do so by a medical professional. Do not give anything by mouth to an unconscious person. : Water, wash facilities
5.	Fire Fighting Measures Extinguishing Media	: The product itself is not combustible; in case of fire in its immediate environment, preferred extinguishing media are water spray, foam, CO ₂ , dry ice.
	Unsuitable Extinguishing Media Hazards from combustion of the product Protective equipment	 Water jet. Decomposes on heating. Combustion can produce toxic fumes and irritating nitrate gases. In case of fire, wear a self-contained breathing apparatus and eye protection.
6.	Accidental Release Meas Emergency Procedures Personal Precautions Containment and Cleanup, Materials,	 sures : Ensure adequate ventilation. Wear safety glasses and appropriate gloves. Chemical-resistant gloves are needed for the sustained contact. Disposable nitrile gloves are adequate for incidental contact (rinse hands after removing gloves). Prevent product from entering sewer drains or surface waters. : Avoid contact with skin and eyes. : Stop the source of the spill. Control the spill using floor dry, absorbent materials booms/socks, or towels. Clean up the spill using absorbent.
	Methods, Procedure	Disposal subject to all applicable federal, state, and local regulations.



Handling & Storage							
mucous membrane In case of contact v Technical precaution Store at a temperat	es, eyes and gullet. Wear suitab with skin or eyes, wash immedi ons: safety shower and eye sho ure between 7 and 30 degrees (le protect ately wit wer statio Centigrac	tive clothin h plenty o ons. le.	ng. f water.			
Storage conditions: Take all necessary precautions to prevent contamination in case of damaged containers. Store the containers on drip trays or barrier material to prevent product from being discharged to the sewer or surface water. Avoid rough handling to ensure structural integrity.							
Exposure Control	Personal Protection						
	:	OSH	A PEL	AC	GIH TLV		
			-				
	Potassium Hydroxide		-		2		
	•				4		
					3		
	Magnesium Sulfate	n/a	n/a	n/a	n/a		
be exposed up to for ring Controls	 bur times per day with at least 6 Access to running water a ent: Wear nitrile gloves when we Promptly remove contamina 	50 minute nd an eye orking wi	es betweer e wash stat th the proc	i successive expo ion. luct in case of inc	sure) idental exposure.		
Eyes Respiratory	: Wear safety glasses or goggl accidental splash or mist. En	sure an e	ye-wash s	tation is near wor	k area.		
	appropriate handling methods	3.					
Appearance Upper flammabilit Lower flammabilit Odor Vapor Pressure Odor Threshold Vapor Density pH Density Melting Point Freezing Point Solubility Boiling Point Boiling Range	: Clear fluid y limit : Unavailable y limit : Unavailable : Odorless. : Unavailable : Unavailable : Unavailable : 2.2 : 1.32 kg/L at 30°C : Unavailable : Unavailable						
	Handling: Keep out of reach of mucous membrane In case of contact of Technical precaution Storage is storage conditions containers. Store the discharged to the sing Exposure Control e and dd Limits PEL: Occupation Sa TLV: American C Time-weighted Aven Short Term Exposure be exposed up to for ring Controls Protective Equipm Skin Eyes Respiratory Physical & Chem Appearance Upper flammabilit Lower flammabilit Codor Threshold Vapor Pressure Odor Threshold Vapor Density pH Density Melting Point Freezing Point Solubility Boiling Range Crystallization tem Flash Point	Handling: Keep out of reach of children. Not for internal use mucous membranes, eyes and gullet. Wear suitabl In case of contact with skin or eyes, wash immedi Technical precautions: safety shower and eye sho Store at a temperature between 7 and 30 degrees 0 Storage: Storage: Storage conditions: Take all necessary precaution containers. Store the containers on drip trays or be discharged to the sewer or surface water. Avoid re Exposure Control/Personal Protection e and : Id Limits Potassium Hydroxide Nitric Acid Phosphoric Acid Anhydride Magnesium Sulfate PEL: Occupation Safety and Health Administration TLV: American Conference of Governmental Ind ime-weighted Average (for a conventional 8-hour Short Term Exposure Limit (a 15-minute, time-wei be exposed up to four times per day with at least of tring Controls : Access to running water an clothing before re-use. Skin : Wear nitrile gloves when wo Promptly remove contaminan clothing before re-use. Eyes : Wear safety glasses or goggl accidental splash or mist. En Respiratory : No special safety equipment appropriate handling methods Physical & Chemical Properties Appearance : Clear fluid Upper flammability limit : Unavailable Lower flammability limit : Unavailable Odor : Odorless. Vapor Pressure : Hunavailable : Unavailable Odor : Unavailable Odor Threshold : Unavailable : Unavailable Odor : Unavailable Protective Equipment : appropriate handling methods	Handling: Keep out of reach of children. Not for internal use. Avoid mucous membranes, eyes and gullet. Wear suitable protect In case of contact with skin or eyes, wash immediately wit Technical precautions: safety shower and eye shower states Store at a temperature between 7 and 30 degrees Centigrac Storage: Storage conditions: Take all necessary precautions to previous membranes, store the containers on drip trays or barrier madischarged to the sewer or surface water. Avoid rough han the sever or surface water surface water and an evert oreaction tinde the sev	Handling: Keep out of reach of children. Not for internal use. Avoid contact w mucous membranes, eyes and gullet. Wear suitable protective clothi In case of contact with skin or eyes, wash immediately with plenty o Technical precautions: safety shower and eye shower stations. Store at a temperature between 7 and 30 degrees Centigrade. Storage: Storage conditions: Take all necessary precautions to prevent contant containers. Store the containers on drip trays or barrier material to pr discharged to the sewer or surface water. Avoid rough handling to er Exposure Control/Personal Protection e and : OSHA PEL Id Limits ppm mg/m3 Potassium Hydroxide n/a n/a Nitric Acid 2 5 Phosphoric Acid Anhydride n/a 1 Magnesium Sulfate n/a n/a PEL: Occupation Safety and Health Administration Permissible Expo TLV: American Conference of Governmental Industrial Hygienists t "ime-weighted Average (for a conventional 8-hour workday) Short Term Exposure Limit (a 15-minute, time-weighted average cont be exposed up to four times per day with at least 60 minutes betweer ring Controls : Access to running water and an eye wash stat Protective Equipment: Skin : Wear nitrile gloves when working with the proo Promptly remove contaminated clothing and rin clothing before re-use. Eyes : Wear safety glasses or goggles when working w accidental splash or mist. Ensure an eye-wash si Respiratory : No special safety equipment needed. Avoid inh appropriate handling methods. Physical & Chemical Properties Appearance : Clear fluid Upper flammability limit : Unavailable Odor Threshold : Unavailable Odor Threshold : Unavailable PiH : 2.2 Density : 1.32 kg/L at 30°C Melting Point : Unavailable Boiling Range : Unavailable Boiling Range : Unavailable Boiling Range : Unavailable Crystallization temperature Sofe : Fuezing Point : Unavailable Crystallization temperature Sofe : Sofe : Sofe Bash Point : Unavavailable	Handling: Keep out of reach of children. Not for internal use. Avoid contact with skin and eyes. mucous membranes, eyes and gullet. Wear suitable protective clothing. In case of contact with skin or eyes, wash immediately with plenty of water. Technical precations: safety shower and eye shower stations. Store at a temperature between 7 and 30 degrees Centigrade. Storage: Storage conditions: Take all necessary precautions to prevent contamination in case of containers. Store the containers on drip trays or barrier material to prevent product frod discharged to the sewer or surface water. Avoid rough handling to ensure structural in discharged to the sewer or surface water. Avoid rough handling to ensure structural in discharged to the sewer or surface water. Avoid rough handling to ensure structural in discharged to the sewer or surface water. Avoid rough handling to ensure structural in Magnesium Sulfate Potassium Hydroxide n/a n/a Potassium Hydroxide n/a n/a Nitric Acid 2 5 2 Phosphoric Acid Anhydride n/a n/a n/a TLV: American Conference of Governmental Industrial Hygienists threshold limit va "me-weighted Average (for a conventional 8-hour workday) Short Term Exposure Limit (a 15-minute, time-weighted average concentration to which be exposed up to four times per day with at least 60 minutes between successive exporting Controls Skin : Access to running water and an eye wash station. Protective Equipment: Skin Swear nitrile gloves when working with the prod		



	Decomposition Ten Vapor Pressure Viscosity	: n/a berature : Material is not self-igniting. nperature: Unavailable : Unavailable : Unavailable t (n-octanol/water) : Unavailable
10.	Chemical Stability	 ty : No reactivity anticipated. Poses little or no immediate hazard. : Stable under normal conditions of use and storage. No stabilizers needed. Color change is not indicative of any safety issues. d : Do not expose to heat in excess of 200°C.
	Suitable Materials	: Plastics, PVC
11.	Toxicological Info	rmation
	Routes of Entry Eyes	 Eye, skin contact, inhalation, and ingestion. Immediate and delayed irritation, reddening in acute and chronic exposure. Low pH of mixture will cause burns if eyes not rinsed immediately after exposure.
	Skin	 Immediate and delayed irritation. Long term exposure may cause skin degradation. Chronic exposure to be avoided.
	Inhalation	: Fumes are not produced in standard environmental storage conditions. Fumes caused by fire contain nitrogen oxides, which are dangerous if inhaled, and can result in coughing, dyspnoea, drowsiness, unconsciousness, and death.
	Ingestion	: Acute and chronic ingestion can result in abdominal pain, blue lips, blue fingernails, blue skin, convulsions, diarrhea, dizziness, burning sensations, vomiting, weakness, shock, collapse, and unconsciousness.
	LD50	: Unavailable
	Carcinogenic Properties	: None of the mixture ingredients are listed on the National Toxicology Program Report on Carcinogens or on the International Agency for Research on Cancer Monographs.
12.	Ecological Inform	ation
	Ecotoxicity	: There is no data specific to this product. It is potentially toxic the organisms in its concentrated form.
	Persistence and Degradability	: Inherently biodegradable. Non-persistent.
	Mobility	: Mobile in aqueous solutions.
	Bioaccumulation Potential	: Chemicals will be held in vegetative material with no toxic effects to livestock or humans.
	Environmental Protection Leaching	 Do not release into surface waters. Contamination can cause algae blooms and anoxic conditions, both of which are harmful to aquatic ecosystems. Limited.

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13.	Disposal Information
	Soiled containers:Rinse clean with water. Recycle if available.Remainders/unused product:Ensure that disposal is in compliance with all federal, state, and local regulations.
14.	Transport Information
	Shipping Information: House and Garden Hydro BHarmonized System Commodity classification Code: 310590Commodity Classification Standards Board: Code 70, non-hazardous
15.	Regulatory Information
	OSHA Hazards Nitric Acid
	OSHA Designated Carcinogens None of the ingredients are listed.
	TSCA (Toxic Substances Control Act) None of the ingredients are listed.
	USDOT Hazardous Materials None of the ingredients are listed.
	EPA (List of Lists)/ SARA Nitric Acid
	NIOSH None of the ingredients are listed.
16.	Other Information
	The information provided in this Safety Data Sheet is to our best knowledge and belief, accurate and reliable as of the date compiled. However, no warranty or guarantee is made in this respect. It remains the user's responsibility to ensure the suitability and completeness of this information for a particular application. House and Garden Inc. does not accept liability for any damage or loss that may arise from the use of this information.

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