



House and Garden® Hydro A

1. Identification of the Product and the Company

Product Name : Hydro A
Manufacturer : House and Garden Inc.
4700 West End Rd.
Arcata, CA 95521
USA
Emergency Phone : House and Garden: (707) 382-9636
24-hour Poison Control Center: (800) 222-1222
24-hour HAZMAT Emergency Response: (888) 255-3924
Recommended Use : 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:

P102 Keep out of reach of children
P261 Avoid breathing mist or spray
P262 Do not get in eyes, on skin, or on clothing
P264 Wash skin thoroughly after handling
P280 Wear 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 / Information on Ingredients

Chemical Description : Mixture
Description : Mixture of compounds listed below.
Hazardous Ingredients : Ammonium Nitrate* (CAS Number: 6484-52-2)
Nitric Acid* (CAS Number: 7697-37-2)
Calcium Nitrate* (CAS Number 10124-37-5)
Potassium Hydroxide* (CAS Number: 1310-58-3)

*Percent concentrations withheld because they are a trade secret.

4. First Aid Measures

Inhalation : Symptoms may include coughing or dyspnoea. Move person to fresh air. If person is not breathing, contact local emergency services and then give artificial respiration. Call a doctor or poison control center for treatment advice.



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Skin	: 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.
Eyes	: 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.
Ingestion	: 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.
First Aid Facilities	: 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	: Water jet.
Hazards from combustion of the product	: Decomposes on heating. Combustion can produce toxic fumes and irritating nitrate gases.
Protective equipment	: In case of fire, wear a self-contained breathing apparatus and eye protection.
6. Accidental Release Measures	
Emergency Procedures	: 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.
Personal Precautions	: Avoid contact with skin and eyes.
Containment and Cleanup, Materials, Methods, Procedure	: Stop the source of the spill. Control the spill using floor dry, absorbent materials booms/socks, or towels. Clean up the spill using absorbent. Disposal subject to all applicable federal, state, and local regulations.



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7. Handling & Storage

Handling:

Keep out of reach of children. Not for internal use. Avoid contact with skin and eyes. Irritates the skin, mucous membranes, eyes and gullet. Wear suitable protective clothing.

In case of contact with skin or eyes, wash immediately with plenty of water.

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 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.

8. Exposure Control/Personal Protection

Exposure and Threshold Limits	:	OSHA PEL		ACGIH TLV	
		ppm	mg/m ³	TWA (mg/m ³)	STEL (mg/m ³)
	Potassium Hydroxide	n/a	n/a	n/a	2
	Calcium Nitrate	n/a	n/a	n/a	n/a
	Ammonium Nitrate	n/a	n/a	n/a	n/a
	Nitric Acid	2	5	2	4

OSHA PEL: Occupation Safety and Health Administration Permissible Exposure Limits

ACGIH TLV: American Conference of Governmental Industrial Hygienists threshold limit value

TWA: Time-weighted Average (for a conventional 8-hour workday)

STEL: Short Term Exposure Limit (a 15-minute, time-weighted average concentration to which workers may be exposed up to four times per day with at least 60 minutes between successive exposure)

Engineering Controls : Access to running water and an eye wash station.

Personal Protective Equipment:

Skin : Wear nitrile gloves when working with the product in case of incidental exposure. Promptly remove contaminated clothing and rinse skin for 15 minutes. Launder clothing before re-use.

Eyes : Wear safety glasses or goggles when working with this product in case of accidental splash or mist. Ensure an eye-wash station is near work area.

Respiratory : No special safety equipment needed. Avoid inhaling mists or fumes by using appropriate handling methods.

9. Physical & Chemical Properties

Appearance	: Clear, red fluid
Upper flammability limit	: Unavailable
Lower flammability limit	: Unavailable
Odor	: Faint chemical scent, usual fertilizer odor.
Vapor Pressure	: Unavailable
Odor Threshold	: Unavailable
Vapor Density	: Unavailable
pH	: 3.5 – 4.5
Density	: 1.20 kg/L at 30°C
Melting Point	: Unavailable
Freezing Point	: Unavailable
Solubility	: Fully soluble
Boiling Point	: Unavailable
Boiling Range	: Unavailable
Crystallization temperature	: <5°C
Flash Point	: Unavailable
Evaporation Rate	: Unavailable
Danger of Explosion	: None.
Flammability	: n/a



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	Auto-ignition Temperature : Material is not self-igniting. Decomposition Temperature: Unavailable Vapor Pressure : Unavailable Viscosity : Unavailable Partition Coefficient (n-octanol/water) : Unavailable
10. Stability & Reactivity	Chemical Reactivity : No reactivity anticipated. Poses little or no immediate hazard. Chemical Stability : Stable under normal conditions of use and storage. No stabilizers needed. Color change is not indicative of any safety issues. Conditions to Avoid : Do not expose to heat in excess of 200°C. Materials to Avoid : Metals and alkalis Suitable Materials : Plastics, PVC
11. Toxicological Information	Routes of Entry : Eye, skin contact, inhalation, and ingestion. Eyes : Immediate and delayed irritation, reddening in acute and chronic 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 Information	Ecotoxicity : There is no data specific to this product. It is potentially toxic to 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 : Do not release into surface waters. Contamination can cause algae blooms and anoxic conditions, both of which are harmful to aquatic ecosystems. Leaching : 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 A
Harmonized System Commodity classification Code: 310590
Commodity 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
Potassium Hydroxide

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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