


ROLF C. HAGEN INC., 20500 TRANSCANDA HWY,
BAIE D'URFÉ, QUEBEC, H9X 0A2
CANADA

Nutrafin Test Kit
Reagent for Ammonia freshwater
A7821

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Section I. Product and Company Identification	
Product name	Nutrafin Ammonia Freshwater Reagent
CAS #	Mixture
Use	To measure ammonia in aquarium containing freshwater
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency	Call your local poison control center

Section II. Hazards Identification	
WHMIS	Classification
	E: Corrosive D1A: Very toxic materials causing immediate and serious toxic effects D2A: Very toxic material causing other toxic effects

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Sodium hydroxide	8-10	1310-73-2	215-185-5
Potassium Iodide	1.5-2	7681-11-0	231-659-4
Mercuric Iodide (II)	2-2.5	7774-29-0	231-873-8

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water for a minimum of 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water and soap. Seek immediate medical attention.
Inhalation	Move victim to fresh air. If symptom persists, obtain medical attention.
Ingestion	Have conscious person drink several glasses of water or milk. Never administered any liquids to an unconscious or convulsing person. Do not induce vomiting. Seek immediate medical attention.

Section V. Fire Fighting Measures	
Suitable extinguishing media	
Use extinguishing media appropriate to surrounding fire conditions.	
Specific hazards arising from the chemical	
Combustion byproducts are toxic and include hydrogen iodide, mercury and iodine. Incompatible with strong acids, organic material, ammonium aldehydes.	
Special protective actions for fire-fighters	
Wear adequate personal protection to prevent contact with material or its combustion products. Self-	

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contained breathing apparatus with a full-face piece operated in a pressure demand or other positive pressure mode.

Section VI. Accidental Release Measures	
Person-related safety precautions	Wear adequate personal protective equipment and clothing (e.g. chemical splash goggles, gloves, aprons, boots).
Measures for environmental protection	Prevent entry into drains, waterways or sewers.
Measures for cleaning/collecting	Use an inert absorbent material such as clay, sand, earth or vermiculite. Place in closed container for disposal. Clean the spill area after product complete removal.

Section VII. Handling and Storage
Handle in accordance with good industrial hygiene and safety practices. Avoid all contact with product. After handling and before eating, drinking or smoking, wash hands and face thoroughly with soap and water. Prevent accidental contact with incompatible chemicals. Store away from acids and incompatible materials. Keep containers closed and in upper position.

Section VIII. Exposure Controls and Personal Protection	
Protective clothing	Apply the appropriate protective measures for safe handling of chemicals. Rubber or plastic gloves. Chemical splash goggles or face mask. Protective clothing, apron. Rubber boots.
Engineering controls	General ventilation is recommended.

Section IX. Physical and Chemical Properties	
Appearance (physical state, color, etc) / Odor	Light yellow liquid. Odorless.
Odor threshold	Data not available
pH	> 12
Melting point / Freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability (solid, gas)	Data not available
Upper / Lower flammability	Data not available
Vapor pressure	Data not available
Vapor density	Data not available
Bulk density	Data not available
Liquid density	Data not available

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% Volatile	Data not available
Specific gravity	1.09 at 20 °C
Solubility	Soluble in water
Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

Section X. Stability and Reactivity	
Instability conditions	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures, contamination and exposure to light.
Materials to avoid	Incompatible with strong acids, organic material, ammonium aldehydes.
Hazardous decomposition products	Combustion byproducts are toxic and include hydrogen iodide, mercury and iodine.
Hazardous polymerization	No risk of dangerous polymerization

Section XI. Toxicological Information	
Route of exposure	Conclusion / Remarks
Skin	Causes severe burns if the exposed area is not washed immediately. Readily absorbed through skin. Sodium hydroxide LD ₅₀ (rabbit - oral): 1350 mg/kg
Eye	Causes severe burns. May cause permanent damage.
Inhalation	If inhaled, may cause nose and throat irritation.
Ingestion	Swallowing this material causes severe burns and poisoning to organs, can cause death. Sodium hydroxide LD ₅₀ (rat - oral): 140-340 mg/kg Mercuric iodide (II) LD ₅₀ (rat - oral) : 140-340 mg/kg
Mutagenicity	Not available
Carcinogenicity	Not available
Reproductive toxicity	Not available
STOT-single exposure	Not available
STOT-repeated exposure	Not available
Aspiration hazard	Not available
Acute toxicity	Highly toxic. Corrosive. Dangerous by ingestion, inhalation or skin absorption.
Chronic Overexposure	Can cause damage to the central nervous system.

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Section XII. Ecological Information

Ecotoxicity	Not available
Mobility	Not available
Persistence and Degradability	Not available
Bioaccumulation potential	Not available

Section XIII. Disposal Considerations

Disposal recommendations	Dispose of in accordance with federal, provincial and local regulations.
Disposal of damaged packaging	Data not available
Regulatory disposal information	Data not available

Section XIV. Information relative au transport

T.D.G. Classification	UN1824, Sodium hydroxide solution PG: II, Class 8
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Section XV. Regulatory Information**Exposure Limits**

Sodium hydroxide (CAS 7664-93-9)

ACGIH-TLV: 2 mg/m³ (Ceiling)**OSHA-PEL:** 2 mg/m³ (9293)

Mercuric iodide (II) (CAS 7774-29-0)

ACGIH-TLV : 0,05 mg/m³ as Hg**OSHA-PEL:** 0.1 mg/m³ as Hg**Section XVI. Other information**

While the company believes the data set forth herein are accurate as the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration and verification.

Prepared by Rolf C. Hagen Inc.
(514) 457-0914Validated: November 27th, 2014