

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

Nutrafin Test Kit
Ammonia Fresh Water Reagent
A7820

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Section I. Product and Company Identification	
Product name Nutrafin Ammonia Fresh Water Test Kit	
CAS # Mixture	
Use	To measure ammonia in 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) D-1A (Immediate and seriously toxic) D-2A (Very Toxic material with other effects)

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS#	EC#
Sodium Hydroxide	4.5-5.5	1310-73-2	215-185-5
Potassium Iodide	1.5-2.0	7681-11-0	231-659-4
Mercuric Iodide (II)	2.0-2.5	7774-29-0	231-873-8
Water	Q.S.	7732-18-5	231-791-2

Section IV. Fire	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	If inhaled, remove patient to fresh air. If symptom persists, obtain medical attention.		
Ingestion	Have conscious person drink several glasses of water or milk.		
	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	
Hydrogen Iodide, Mercury, Iodine.	



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### Special protective actions for fire-fighters

Wear adequate personal protection to prevent contact with material or it combustion products. Self-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	Rubber or plastic gloves. Full face-shield or chemical splash goggles or face mask. Protective clothing, apron, rubber boots.
Measures for environmental protection	DO NOT empty into drain.
Measures for cleaning/collecting	Absorb spill with inert material such as clays, sand, earth, or vermiculate and place in closed container for disposal. Clean the spill area after product complete removal.

### **Section VII. Handling and Storage**

Store away from bases, oxidizing and reducing agent, sodium, fluoride and calcium carbide. Do not store with other incompatible material, even in case of spill. Keep container closed and in upper position. Store in cool, well-ventilated area.

Section VIII. Exposure Controls and Personal Protection	
Protective clothing Rubber or plastic gloves. Full face-shield or chemical splash §	
	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. Odourless.
Odor threshold	Not available
рН	>12 @20°C
Melting point / Freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper / Lower flammability	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available



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Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

Section X. Stability and Reactivity	
Instability conditions	This product is stable under normal conditions.
Conditions to avoid	Avoid high temperatures and contamination.
Materials to avoid	Acids, organic material, ammonium, aldehyde.
Hazardous decomposition products	Decomposition products are toxic and include gas of mercury, iodine and iodine products.
Hazardous polymerization	Does not polymerize.

Section XI. Toxicological Information		
Route of exposure	Conclusion / Remarks	
Skin corrosion/irritation	Causes severe burns if the exposed area is not washed immediately.	
	Readily absorbed through skin.	
	Sodium hydroxide	
	Dermal (LD): 1350 mg/kg (rabbit)	
Serious eye damage/irritation	Cause severe burns. Can cause permanent damage.	
Respiratory or skin sensitization	If inhaled, may cause nose and throat irritation.	
Ingestion	Swallowing of this material causes burns and organ poisoning can	
	also cause death.	
	Sodium hydroxide	
	Oral (LD50): Acute: 140 -340 mg/kg (rat);	
	Mercuric Iodide (II)	
	Oral (LD50): Acute: 18mg/kg (rat)	
Germ cell 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	Corrosive! Highly Toxic! Dangerous by ingestion, inhalation or skin	
	absorption.	
Chronic Overexposure	Can cause damage to the central nervous system.	

## **Section XII. Ecological Information**



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

Section XIII. Disposal Considerations	
Disposal recommendations	Dispose of in an approved landfill in accordance with federal, provincial and local regulations.
Regulatory disposal information	Not available

#### **Section XIV. Transport Information**

Reagent

TDG CLASS 8. PIN UN1824, SODIUM HYDROXIDE SOLUTION P.G. II

Kit

TDG CLASS LIMITED QUANTITY PIN UN1824

#### **Section XV. Regulatory Information**

Sodium Hydroxide OSHA PEL: 2mg/M3 ACGIH TLV C: 2mg/M3; 9293

Mercuric Iodide (II) OSHAL PEL: 0.1 mg/M3 as Hg; ACGIH TLV: 0.05 mg/M3 as Hg

#### **Section XVI. Other Information**

Toxic! Corrosive! Avoid all contact with product. Always wash hands after manipulation of product containers, and before eating.

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) 457-0914

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