



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TransCanada HWY,
Baie d'Urfé, QUEBEC, H9X 0A2
CANADA

Nutrafin test kit
NH₃
A7821

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Section I. Product identification and uses		Section II. Hazardous ingredients	
Product name	Ammonia reagent	- Sodium Hydroxide 4,5 - 5,5 %	
Chemical formula	Mixture	CAS : 1310-73-2 TLV: OSHA PEL : 2mg/M3; ACGIH TLV : C 2 mg/M3; 9293	
Chemical family	Mixture	- Potassium Iodide 1,2 - 2 %	
Material uses	Reagent to determine ammonia level in freshwater.	CAS : 7681-11-0 TLV: Not available	
		- Mercuric Iodide (II) 2 - 2,5 %	
		CAS : 7774-29-0 TLV: OSHA PEL : 0,1 mg/M3 as Hg ACGIH TLV : 0,05 mg/M3 as Hg	
Section III. Physical data			
Physical state and appearance/ Odor	Light yellow, liquid, odorless.		
pH	<12		
Percent volatile	Not available		
Freezing point	Not available		
Boiling point	Not available		
Specific gravity	1,09		
Vapor density	Not applicable		
Vapor pressure	Not applicable		
Evaporation rate	Not available		
Solubility	Completely soluble in water		
Section IV. Fire and explosion data			
- Fire and explosion hazards: Not available.			
Section V. Reactivity data			
- Stability: stable. Avoid: high temperature, contamination and light. Store away from acids. Do not store with other incompatible materials, even in case of spill. Keep container closed and in upper position.			



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Section VI. Toxicological properties	
Routes of entry	
Effects of acute exposure	Dangerous by ingestion, inhalation or skin absorption. Highly toxic. Corrosive.
Eye	Causes severe burns. May cause permanent damage.
Skin	Causes severe burns if the exposed area is not washed . Readily absorbed through skin.
Inhalation	If inhaled, causes nose and throat irritation.
Ingestion	If ingested, causes severe burns and poisoning of organs, can also cause death.
Effects of chronic overexposure	Can cause damage to the central nervous system.

Section VII First aid measures	
Eye contact	Immediately flush with copious quantities of water for at least 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.



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Inhalation	If inhaled, remove patient to fresh air. If the symptoms persist, consult a physician.
Ingestion	Have conscious person drink several glasses of water or milk. DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

Section VIII. Preventive measures	
Protective clothing in case of spill and leak	See section IX for personal equipment.
Spill and leak	Absorb spill with inert materials such as clays, sand, earth or vermiculite and place in closed container for disposal. Clean the spill area after product complete removal. DO NOT empty into drain.
Waste disposal	According to all applicable regulations.
Storage and handling	Store away from acids. Do not store with other incompatible materials, even in case of spill. Keep container closed and in upper position.

Section IX. Protective measures	
Protective clothing	Rubber or plastic gloves. Chemical splash goggles or face mask. Protective clothing, apron. Rubber boots.
Engineering controls	General ventilation is recommended.

Section X. Other information	
Special precautions or comments	Toxic! Corrosive! Avoid all contact with product. Always wash hands after manipulation of product containers, and before eating.

Prepared by Rolf C. Hagen Inc. (514) 457-0914	Validated October 31 st , 2008
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