


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

Nutrafin Test kit
Reagent #1 NH3 Fresh and Salt Water
A7856

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Section I. Product and Company Identification	
Product name	Nutrafin Ammonia Fresh and Saltwater Reagent #1
CAS #	Mixture
Use	To measure ammonia in aquarium containing fresh and saltwater
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

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Sodium Hydroxide	5 - 10	1310-73-2	215-185-5

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water for a minimum of 30 minutes holding lids apart to ensure flushing of the entire surface. If irritation persists, repeat flushing. Seek immediate medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water and soap for a minimum of 20 minutes. Seek medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptom persists, obtain medical attention.
Ingestion	Have conscious person drink several glasses of water. Never administered any liquids to an unconscious or convulsing person. 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	
Solutions may react with aluminium and other soft metals to generate hydrogen which is flammable and/or explosive if ignited. Thermal decomposition products are toxic and may include hydrogen gas.	
Special protective actions for fire-fighters	
Wear adequate personal protection to prevent contact with material or its combustion products. Self-contained breathing apparatus with a full-face piece operated in a pressure demand or other positive pressure mode.	

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Section VI. Accidental Release Measures	
Person-related safety precautions	Wear adequate personal protective equipment and clothing (e.g. full face-shield, chemical splash goggles, gloves, apron, 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 operations that generate mist. 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. Store in cool, well ventilated area. Keep containers closed.	

Section VIII. Exposure Controls and Personal Protection	
Protective clothing	Apply the appropriate protective measures for safe handling of chemicals. Rubber or plastic gloves. Full face-shield and chemical splash goggles or face mask. Protective clothing, apron. Rubber boots.
Engineering controls	General ventilation normally adequate.

Section IX. Physical and Chemical Properties	
Appearance (physical state, color, etc) / Odor	Clear, colorless liquid. Odorless
Odor threshold	Data not available
pH	14
Melting point / Freezing point	0 °C
Initial boiling point and boiling range	100 °C
Flash point	Not applicable
Evaporation rate	Data not available
Flammability (solid, gas)	Data not available
Upper / Lower flammability	Not applicable
Vapor pressure	Data not available
Vapor density	Not applicable
Liquid density	Data not available
% Volatile	> 95
Specific gravity	1 at 20 °C

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Solubility	Soluble in water
Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Not applicable
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 and contamination.
Materials to avoid	Solutions may react with aluminium and other soft metals to generate hydrogen which is flammable and/or explosive if ignited. Incompatible with strong oxidising agents and strong acids, organic halides, aluminium, tin, zinc and nitro compounds.
Hazardous decomposition products	Thermal decomposition products are toxic and may include hydrogen gaz.
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. Sodium hydroxide LD ₅₀ (rabbit - skin): 1350 mg/kg
Eye	Causes severe burns. Permanent blindness may occur.
Inhalation	If inhaled, may cause nose and throat irritation.
Ingestion	Swallowing this material causes severe burns to the mouth, throat and stomach, can cause death. Sodium hydroxide 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	Corrosive! Dangerous by ingestion, inhalation or skin absorption.
Chronic Overexposure	To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section XII. Ecological Information
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MATERIAL SAFETY DATA SHEET

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

Section XIV. Transport Information	
T.D.G. Classification	UN1824, PG: II, Class 8

Section XV. Regulatory Information	
Exposure Limits	
Sodium Hydroxide (CAS 1310-73-2)	
ACGIH-TLV: 2 mg/m ³ (Ceiling); 9293	
OSHA-PEL: 2 mg/m ³	

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) 457-0914	Validated: November 26 th , 2014
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