


Nutrafin Test Kit
Reagent#1 for Calcium
A7851

Section I. Product and Company Identification	
Product name	Nutrafin Calcium Reagent #1
CAS #	Mixture
Use	To measure calcium 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 material

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Sodium Hydroxide	7 - 13	1310-73-2	215-185-5

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water. If victim wear contact lenses, remove them and continue rinsing for at least 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 for a minimum of 20 minutes.
Inhalation	Remove victim to fresh air. If symptoms persist get medical attention.
Ingestion	Have conscious person drink several glasses of water. Never administrated any liquids to an unconscious or convulsing person. Seek medical attention immediately.

Section V. Fire Fighting Measures
Suitable extinguishing media
Use extinguishing media appropriate to surrounding fire conditions.
Specific hazards arising from the chemical
Not normally a fire hazard. Water content of product prevent ignition. Reacts with most metals to produce hydrogen gas, which could make an explosive mixture with air.
Special protective actions for fire-fighters
Wear adequate personal protection to prevent contact with material or it combustion products. Use self-contained breathing apparatus operated in a pressure demand or other positive pressure mode.



MATERIAL SAFETY DATA SHEET

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BAIE D'URFÉ, QUEBEC, H9X 0A2
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Section VI. Accidental Release Measures	
Person-related safety precautions	Wear adequate personal protective equipment and clothing (e.g. chemical splash goggles, gloves, apron, rubber 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 contact with eyes, skin and clothing. 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 in a cool, well-ventilated area. 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. Full-face shield and chemical splash goggles or facemask. Protective clothing, apron. Rubber boots.
Engineering controls	General ventilation is recommended.

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	Data not available
Initial boiling point and boiling range	Data not available
Flash point	Not applicable
Evaporation rate	Data not available
Flammability (solid, gas)	Data not available
Upper / Lower flammability or explosive limits	Not applicable
Vapor pressure	Data not available
Vapor density	Not applicable
Liquid density	Data not available
% Volatile	> 85
Specific gravity	1.1 at 20 °C
Solubility	Soluble in water

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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, contamination and incompatible materials.
Materials to avoid	Reacts with most metals to produce hydrogen gas that could make an explosive mixture with air.
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 burn if the exposed area is not wash immediately
Eye	Causes severe burn. Permanent blindness may occurs
Inhalation	If inhaled may cause nose and throat irritation.
Ingestion	Swallowing this material causes server burns to the mouth; throat and stomach can cause death. Sodium Hydroxide Oral LD ₅₀ (rat) 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	Corrosive effects on the skin and eyes may be delayed, and damage may occur without the sensation or onset of pain. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section XII. Ecological Information	
Ecotoxicity	Not available
Mobility	Not available
Persistence and Degradability	Not available



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Bioaccumulation potential	Not available
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Section XIII. Disposal Considerations	
Disposal recommendations	Dispose of in accordance with federal, provincial and local regulations.
Disposal of damaged packaging	If the container contains residue of a hazardous product, follow all MSDS and label precautions even after container is emptied.
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 28 th , 2014
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