


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

Nutrafin Test Kit
Reagent#1, nitrate
A7846

Page 1 of 4

Section I. Product and Company Identification	
Product name	Nutrafin Nitrate test kit Reagent # 1
CAS #	Mixture
Use	To measure nitrate in aquarium water
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 D-2A: Very toxic material causing other toxic effects

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Sulfanilic Acid	0.1-1	121-57-3	204-482-5
Hydrochloric Acid	1-5	7647-01-0	231-595-7

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 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	May cause irritation. Remove the contaminated clothes and flush with plenty of water and soap for a minimum of 20 minutes. In case of irritation seek medical attention.
Inhalation	Remove victim to fresh air. If symptom persists, obtain medical attention.
Ingestion	Have conscious person drink several glasses of water. Never administrated 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	
Emits toxic fumes under fire conditions. Not normally a fire hazard. Water content of product prevent ignition.	
Special protective actions for fire-fighters	
Wear adequate personal protection to prevent contact with material or it combustion products. Self-contained breathing apparatus operated in a pressure demand or other positive pressure mode.	



MATERIAL SAFETY DATA SHEET

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

Nutrafin Test Kit
Reagent#1, nitrate
A7846

Page 2 of 4

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 bases in a 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. 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	Clear, colorless liquid, odorless
Odor threshold	Data not available
pH	< 1
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)	Non-flammable
Upper / Lower flammability	Not applicable
Vapor pressure	Data not available
Vapor density	Data not available
Liquid density	Data not available
% Volatile	> 90
Specific gravity	1 at 20 °C
Solubility	Soluble in water

Nutrafin Test Kit
Reagent#1, nitrate
A7846

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	Incompatible with reducing agents, organic materials, alkalis and finely powdered metals.
Hazardous decomposition products	Thermal decomposition products are toxic and include hydrogen chloride gas.
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
Eye	Causes severe burn. Permanent blindness may occur.
Inhalation	If inhaled, may cause nose and throat irritation. Hydrochloric Acid LC ₅₀ (rat - vapors) acute: 3,124 ppm (1H); (mouse - acute): 757 ppm (1 H)
Ingestion	Swallowing this material causes severe burns to the mouth, throat and stomach. Hydrochloric Acid LD ₅₀ (rabbit - oral): 900 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	May cause liver and kidney damage. To the best of our knowledge, the chemical, physical, and toxicity data of this product has not been fully investigated.

Section XII. Ecological Information	
Ecotoxicity	Not available



MATERIAL SAFETY DATA SHEET

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

Nutrafin Test Kit
Reagent#1, nitrate
A7846

Page 4 of 4

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	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	UN1789, Hydrochloric Acid PG: III, Class 8

Section XV. Regulatory Information	
Exposure Limits	
Hydrochloric Acid (CAS 7647-01-0)	
ACGIH-TLV : 5 ppm (7,5 mg/m³) (Ceiling)	

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: December 1 st , 2014
--	--