

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

Nutrafin Test kit
Phosphate Reagent #1
A7841

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Section I. Product and Company Identification	
Product name	Nutrafin Phosphate Reagent #1
CAS#	Mixture
Use	To measure phosphate 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
	D-1A: Materials causing immediate and serious
	toxic effects (Very toxic)

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS#	EC#
Sulfuric Acid	5-10	7664-93-9	321-639-5
Ammonium Molybdate	1-5	12027-67-7	234-722-4

Section IV. Fir	st Aid Measures
Eye contact	Immediately flush with copious quantities of water. If victim wears contact lenses, remove them and continue rinsing for at least 30 minutes holding lids apart to ensure flushing of the entire surface. Repeat flushing if irritation persists. 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 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

Under fire conditions, emits toxic fumes including sulfur oxides. 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.



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Section VI. Accidental Release Measu	ıres
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 and incompatible materials in cool, well ventilated place. Keep containers closed and in upper position.

tic gloves. Chemical splash goggles or face mask. ning, apron. Rubber boots.
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Section IX. Physical and Chemical Properties	
Appearance (physical state, color, etc.) / Odor	Liquid, odorless
Odor threshold	Data not available
рН	< 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 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



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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 heat, open flame, contamination and incompatible materials.	
Materials to avoid	Incompatible with reducing agents, organic material, alkalis and finely powdered metals.	
Hazardous decomposition products	Thermal decomposition products are toxic and include sulfur oxides.	
Hazardous polymerization	No risk of dangerous polymerization	

Section XI. Toxicological Inform	nation
Route of exposure	Conclusion / Remarks
Skin	Causes severe burns if the exposed area is not washed immediately.
Eye	Causes severe burns. Permanent blindness may occur.
Inhalation	If inhaled may cause nose and throat irritation. Sulfuric acid LC ₅₀ (rat-vapor) acute: 255 ppm (4H)
Ingestion	Swallowing this material causes burns to the mouth, throat and stomach. May cause death. Sulfuric acid LD_{50} (rat-oral) acute: 472 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	No data are available for chronic inhalation of this product.

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



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Section XIII. Disposal Consideration	ons
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	UN2796, Acide sulfurique PG: II, Class 8

Section XV. Regulatory Information

Exposure Limits

Sulfuric Acid (CAS 7664-93-9) **ACGIH TLV-STEL:** 3 mg/m³ **ACGIH TLV-TWA:** 1 mg/m³

Ammonium Molybdate, as Molybdenum (CAS 12027-67-7)

ACGIH TLV-TWA: 5 mg/m³
OSHA PEL 8H TWA: 5 mg/m³

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. Validated: December 3rd, 2014 (514) 457-0914