



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

Nutrafin Test Kit
Reagent #3, nitrate
A7848

Section I. Product and Company Identification	
Product name	Nutrafin Nitrate Reagent #3
CAS #	Mixture
Use	Reagent to determine nitrate in 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
 	B-3: Combustible liquid D-2B: Materials causing other toxic effects (Toxic)

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Zinc metal	0.1-1	7440-66-6	231-175-3
Ethoxydiglycol	60-100	111-90-0	203-919-7
Propylene Glycol	10-30	57-55-6	200-338-0

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water. If victim wears contact lenses, remove them and continue rinsing for at least 20 minutes holding lids apart to ensure flushing of the entire surface. Seek medical attention.
Skin contact	May cause irritation to skin. Remove the contaminated clothes and flush with plenty of water and soap. Get medical attention if symptoms persist.
Inhalation	Remove victim to fresh air. Get medical attention if symptoms persist
Ingestion	Have conscious person drink several glasses of water. Do not induce vomiting. Never administered any liquids to an unconscious or convulsing person. Seek medical attention.

Section V. Fire Fighting Measures	
Suitable extinguishing media	
Carbon dioxide (CO ₂), dry chemical, water spray or alcohol foam.	
Specific hazards arising from the chemical	
Emits toxic fumes under fire conditions. Avoid high temperatures, sparks, open flames and all other sources of ignition.	
Special protective actions for fire-fighters	
Wear adequate personal protection to prevent contact with material or its combustion products. Use	

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self-contained breathing apparatus operated in a pressure demand or other positive pressure mode.

Section VI. Accidental Release Measures	
Person-related safety precautions	Wear adequate personal protective equipment and clothing including self-contained breathing apparatus, heavy duty rubber gloves and rubber boots.
Measures for environmental protection	Prevent entry into drains, waterways or sewers.
Measures for cleaning/collecting	Evacuate the area. Absorb spill with an inert 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 incompatible materials in a cool, well ventilated place and away from heat, sparks or flames. 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; chemical splash goggles or face mask; protective clothing, apron; rubber boots. Do not wear contact lenses.
Engineering controls	General ventilation is recommended.

Section IX. Physical and Chemical Properties	
Appearance (physical state, color, etc.) / Odor	Suspension of metal in liquid
Odor threshold	Data not available
pH	Neutral
Melting point / Freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	> 95 °C
Evaporation rate	Data not available
Flammability (solid, gas)	Data not available
Upper / Lower flammability or explosive limits	Data not available
Vapor pressure	Data not available
Vapor density	Data not available

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Liquid density	Data not available
% Volatile	Data not available
Specific gravity	1 at 20 °C
Solubility	Insoluble in water
Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Data not available
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, sparks, open flames and all other sources of ignition.
Materials to avoid	Incompatible with strong oxidizers, acids and reducing agents.
Hazardous decomposition products	Oxides of carbon
Hazardous polymerization	No risk of dangerous polymerization.

Section XI. Toxicological Information	
Route of exposure	Conclusion / Remarks
Skin	Contact may cause irritation. Ethoxydiglycol LD ₅₀ (rabbit-skin): 8,500 µl/kg Propylene glycol LD ₅₀ (rabbit-skin): 20.8 g/kg
Eye	Contact may cause irritation.
Inhalation	May cause nose and throat irritation.
Ingestion	Slightly toxic! May result in nausea, headache, dizziness Ethoxydiglycol LD ₅₀ (rat-oral): 5,500 g/kg Propylene glycol LD ₅₀ (rat-oral): 20 g/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	Not known
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	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	Not controlled

Section XV. Regulatory Information	
Not available	

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 2 nd , 2014
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