



# MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TransCanada HWY,  
Baie d'Urfé, QUEBEC, H9X 0A2  
CANADA

<b>Nutrafin test kit</b>
<b>pH Wide Range</b>
<b>A7816</b>

Section I. Product identification and uses		Section II. Hazardous ingredients	
Product name	pH wide range reagent	- Ethyl Alcohol, denatured 45 -50 % CAS: 64-17-5 TLV: OSHA PEL: 1000 ppm ACGIH TLV: 1000ppm	
Chemical formula	Mixture		
Chemical family	Mixture		
Material uses	Reagent to determine pH of water		
Section III. Physical data			
Physical state and appearance/ Odour		Red, liquid. Alcoholic	
pH		3	
Percent volatile		Not available	
Freezing point		Not available	
Boiling point		Not available	
Specific gravity		0,9	
Vapour density		Not available	
Vapour pressure		Not available	
Evaporation rate		Not available	
Solubility		Completely soluble in water	
Section IV. Fire and explosion data			
- Fire and explosion hazards: Flammable liquid. Closed containers may build up pressure at elevated temperature. Cool with spray. Avoid excessive heat, open flame, sources of ignition. Flash Point : 21 C			
Section V. Reactivity data			
- Stability : Stable. Avoid excessive heat, sparks, open flame and sources of ignition. - Hazardous decomposition product: Not available - Incompatibility: Strong acids, alkalis or oxidizing agents.			



# MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TransCanada HWY,  
Baie d'Urfé, QUEBEC, H9X 0A2  
CANADA

<b>Nutrafin test kit</b>
<b>pH Wide Range</b>
<b>A7816</b>

Section VI. Toxicological properties	
Routes of entry	
Effects of acute exposure	Irritant. Other information is not available.
Eye	Cause irritation. May cause permanent damage.
Skin	Material irritates the skin. Prolonged or repeated skin contact may lead to drying, irritation and dermatitis.
Inhalation	If inhaled, throat and lungs irritation. Breathing vapor may cause headaches, nausea, vomiting, dizziness and loss of muscle coordination.
Ingestion	May cause damage to central nervous system and internal organs. May lead to blindness and death.
Effects of chronic overexposure	Irritant to eyes and upper respiratory tract.

Section VII First aid measures	
Eye contact	Immediately flush with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water and soap. In case of irritation, seek medical attention.
Inhalation	If inhaled, remove patient to fresh air. If the symptoms persist, consult a physician.



## MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TransCanada HWY,  
Baie d'Urfé, QUEBEC, H9X 0A2  
CANADA

Nutrafin test kit

pH Wide Range

A7816

Page 3 of 3

Ingestion	Have conscious person drink several glasses of water or milk. DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.
-----------	--

Section VIII. Preventive measures	
Protective clothing in case of spill and leak	See section IX for personal equipment.
Spill and leak	Avoid any ignition source. Absorb spill with inert materials such as clays, sand, earth or vermiculite and place in closed container for disposal. Aerate and clean the spill area after product complete removal. DO NOT empty into drain.
Waste disposal	According to all applicable regulations.
Storage and handling	Store away from acids. Do not store with other incompatible materials, even in case of spill. Avoid excessive heat, open flame, sources of ignition. Keep containers closed and in upper position.

Section IX. Protective measures	
Protective clothing	Rubber or plastic gloves. Chemical splash goggles or face mask. Protective clothing, apron. Rubber boots.
Engineering controls	General ventilation is recommended.

Section X. Other information	
Special precautions or comments	Flammable liquid. Irritant. Do not breath vapours. Always wash hands after manipulation of product containers, and before eating.

Prepared by Rolf C. Hagen Inc. (514) 457-0914	Validated October 31 <sup>st</sup> , 2008
--	---