



MATERIAL SAFETY DATA SHEET

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

Nutrafin test kit
GH
A7832

Section I. Product identification and uses		Section II. Hazardous ingredients
Product name	Hardness reagent (GH)	-Methanol: 40%-50% CAS#: 67-56-1. TLV: 200ppm. Oral LD50: 5628mg/kg. LC50: 64000 ppm (rat 4 hours) -Triethanolamine: 35%-45% CAS#: 102-71-6. TLV: 5mg/M3. Oral LD50: 8000mg/kg (rat). LC50: 560 mg (rabbit, 24 hours, light). - EDTA mono-di sodium salts: 1%-3%. CAS # and TLV not available.
Chemical formula	Mixture	
Chemical family	Mixture	
Material uses	Reagent to determine general hardness in water	
Section III. Physical data		
Physical state and appearance/ Odor	Clear, blue, mobile liquid with mild alcohol odor.	
pH (10%)	10	
Percent volatile	Not available	
Freezing point	Not available	
Boiling point	Not available	
Specific gravity	Not available	
Vapor density	Not available	
Vapor pressure	Not available	
Evaporation rate	Not available	
Solubility	Miscible in water	
Section IV. Fire and explosion data		
- Flash point: 17 C		
Section V. Reactivity data		
-Stability: Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition and contamination.		



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Section VI. Toxicological properties	
Routes of entry	
Effects of acute exposure	May be fatal by ingestion inhalation or skin absorption. Irritant. Onset of symptoms may be delayed 1-30 hours. Target organs: heart, blood, central nervous system, liver, kidneys, spleen, eyes, skin, cardiovascular system, gastrointestinal system, respiratory system, lungs.
Eye	May cause eye injury which may persist for several days.
Skin	Causes skin irritation, scaling, reddening, drying, and cracking of the skin. Prolonged and repeated contact may lead to defraying dermatitis. Liquid can be absorbed in toxic amounts through intact skin.
Inhalation	High levels may cause irritating to mucous membranes and upper respiratory tract.
Ingestion	Poisonous or fatal if swallowed. Can affect the optic nerve resulting in blindness. Can cause mental sluggishness, nausea, vomiting, dyspnea, abdominal pain, diarrhea, convulsions, central nervous system depression, coma and death.
Effects of chronic overexposure	Skin contact may cause sensitization and an allergic skin reaction in a small proportion of individual.

Section VII First aid measures	
Eye contact	Immediately flush eyes 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	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.
Inhalation	Seek medical attention.



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Ingestion

If conscious, wash out mouth with water. Have conscious person drink several glasses of water to dilute. Induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Section VIII. Preventive measures

Protective clothing in case of spill and leak

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Spill and leak

Wash spill site after material pick up is complete. DO NOT empty into drains.

Waste disposal

According to all applicable regulations.

Storage and handling

Store in a cool place away from heated areas, sparks, and flame.

Section IX. Protective measures

Protective clothing

Rubber or plastic gloves. Chemical splash goggles or face mask. Protective clothing, apron. Rubber boots, do not wear contact lenses. If more than TLV, do not breathe vapor and wear self-contained breathing apparatus.

Engineering controls

General ventilation is recommended.

Section X. Other information

Special precautions or comments

Flammable liquid! Highly toxic! Irritant! Readily absorbed through skin. Do not breath vapor. Avoid all contact with the product.

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