



**MATERIAL SAFETY DATA SHEET**

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

<b>Nutrafin test kit</b>
<b>KH</b>
<b>A7831</b>

Section I. Product identification and uses		Section II. Hazardous ingredients
Product name	Carbonate hardness reagent	- Ethyl alcohol, denatured 30%-50% CAS# 64-17-5 TLV: OSHA PEL: 1000ppm; ACGIH TLV: 1000ppm  -Bromocresol Green, Sodium salts <0,1% CAS# 62625-32-5 LTV not available.
Chemical formula	Mixture	
Chemical family	Mixture	
Material uses	Reagent to determine carbonate hardness in water	
Section III. Physical data		
Physical state and appearance/ Odor	Brown liquid with typical wood alcohol odor.	
pH (10%)	2	
Percent volatile	Not available	
Freezing point	Not available	
Boiling point	Not available	
Specific gravity	0,9	
Vapor density	Not available	
Vapor pressure	Not available	
Evaporation rate	Not available	
Solubility	Miscible in water	
Section IV. Fire and explosion data		
- Flash point: 24 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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<b>Section VI. Toxicological properties</b>	
<b>Routes of entry</b>	
Effects of acute exposure	May be fatal by ingestion, inhalation or skin absorption. Severe irritant. May cause central nervous system depression. Target organs: eyes, skin, liver, kidneys, heart, central nervous system, blood, gastrointestinal tract, respiratory system and lungs.
Eye	Causes severe irritation. Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days. Damage is usually mild to moderate conjunctivitis.
Skin	Material irritates the skin. Prolonged or repeated skin contact may lead to drying, irritation and dermatitis.
Inhalation	If inhaled, throat and lung 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	Irritating to eyes and upper respiratory tract.



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### Section VII First aid measures

Eye contact	Immediately flush eyes with copious quantities of water for at least 20 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 20 minutes while removing contaminated clothing and shoes. Completely decontaminate clothing before reuse, or discard. If irritation occurs or persists, seek medical attention.
Inhalation	If inhaled, remove patient to fresh air. If the symptoms persist, consult a physician.
Ingestion	Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. DO NOT induce vomiting. If conscious, wash out mouth with water. Have conscious person drink several glasses of water to dilute. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Seek immediate medical attention.

### Section VIII. Preventive measures

Protective clothing in case of spill and leak	See section IX for personal protective 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 in a cool place away from heated areas, sparks and flame. Do not store with other incompatible materials, even in case of spill. Keep containers closed and in upper position.



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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 breathe vapors. Always wash hands after manipulation of product containers and before drinking, eating or smoking.

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