



<b>Nutrafin Test Kit</b>
KH Reagent
A7831

Section I. Product and Company Identification	
Product name	Nutrafin KH Reagent
CAS #	Mixture
Use	To measure carbonate hardness 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
 	B-2: Flammable liquid D-2A: Materials causing other toxic effects (Very toxic) D-2B: Materials causing other toxic (Toxic)

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Ethyl Alcohol, Denatured	30-60	64-17-5	200-578-6

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water. If victim wear contact lenses, remove them and continue rinsing for a minimum of 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	Remove victim to fresh air. If symptom persists, obtain medical attention.
Ingestion	Have conscious person drink several glasses of water. Never administered 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	
Flammable liquid. Closed containers may build up pressure at elevated temperature. Cool with spray. Avoid excessive heat, open flame, sources of ignition.	
Special protective actions for fire-fighters	
Wear adequate personal protection to prevent contact with material or its combustion products. Self-contained breathing apparatus operated in a pressure demand or other positive pressure mode.	

Section VI. Accidental Release Measures
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# MATERIAL SAFETY DATA SHEET

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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	Avoid any ignition source. Use an inert absorbent material such as clay, sand, earth or vermiculite. Place in closed container for disposal. Aerate and 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. Avoid excessive heat, open flame, sources of ignition. 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.
Engineering controls	General ventilation is recommended.

**Section IX. Physical and Chemical Properties**

Appearance (physical state, color, etc.) / Odor	Brown liquid, alcohol odor
Odor threshold	Data not available
pH	2 at 23 °C
Melting point / Freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	Data not available
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
Liquid density	Data not available
% Volatile	Data not available
Specific gravity	0.9 at 20 °C
Solubility	Miscible in water

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Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

<b>Section X. Stability and Reactivity</b>	
Instability conditions	Stable under recommended storage conditions.
Conditions to avoid	Avoid excessive heat, open flame, sources of ignition and incompatible materials.
Materials to avoid	Incompatible with oxidizing agents, strong acids, alkalis.
Hazardous decomposition products	Not available
Hazardous polymerization	No risk of dangerous polymerization

<b>Section XI. Toxicological Information</b>	
<b>Route of exposure</b>	<b>Conclusion / Remarks</b>
<b>Skin</b>	Material irritates the skin. Prolonged or repeated skin contact may lead to drying, irritation and dermatitis.
<b>Eye</b>	Cause irritation. May cause permanent damage.
<b>Inhalation</b>	If inhaled, causes throat and lung irritation. Breathing vapor may cause headaches, nausea, vomiting, dizziness and loss of muscle coordination.
<b>Ingestion</b>	Swallowing this material may cause damage to central nervous system and internal organs. May lead to blindness and death.
<b>Mutagenicity</b>	Not available
<b>Carcinogenicity</b>	Not available
<b>Reproductive toxicity</b>	Not available
<b>STOT-single exposure</b>	Not available
<b>STOT-repeated exposure</b>	Not available
<b>Aspiration hazard</b>	Not available
<b>Acute toxicity</b>	Irritant. Other information not available.
<b>Chronic Overexposure</b>	Irritating to eyes and upper respiratory tract.

<b>Section XII. Ecological Information</b>	
Ecotoxicity	Not available
Mobility	Not available
Persistence and Degradability	Not available
Bioaccumulation potential	Not available



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<b>Section XIII. Disposal Considerations</b>	
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

<b>Section XIV. Transport Information</b>	
T.D.G. Classification	UN1170, Ethanol Solution PG: II, Class 3

<b>Section XV. Regulatory Information</b>	
<b>Exposure Limits</b>	
Ethyl Alcohol, Denatured (CAS 64-17-5)	
<b>OSHA PEL:</b> 1,000 ppm	
<b>ACGIH-TLV:</b> 1,000 ppm	

<b>Section XVI. Other information</b>	
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 <sup>nd</sup> , 2014
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