



MATERIAL SAFETY DATA SHEET

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

Nutrafin
KH Booster
A7962 A7964

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Section I. Product and Company Identification	
Product name	Nutrafin KH Booster
CAS #	Mixture
Use	To replenish carbonate hardness in aquarium
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
Not controlled	Not applicable

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Potassium carbonate	1 - 5	584-08-7	209-529-3

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water. Verify if contact lenses are present to remove, and continue rinsing for a minimum of 15 minutes holding lids apart to ensure flushing of the entire surface. If irritation persists seek medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water and soap. Seek medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptom persists, obtain medical attention.
Ingestion	Do not induce vomiting. 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	
No data available	
Special protective actions for fire-fighters	
Wear adequate personal protection to prevent contact with material or its combustion products. Self-contained breathing apparatus with a full-face piece 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.

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Measures for environmental protection	Prevent entry into drains, waterways or sewers.
Measures for cleaning/collecting	Use an inert absorbent 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 operations that generate mist. After handling and before eating, drinking or smoking, wash hands and face thoroughly with soap and water. Prevent accidental contact with incompatible materials. Store away from acids. Store in cool, well ventilated area. Keep containers closed. Do not store in aluminum or zinc container.

Section VIII. Exposure Controls and Personal Protection

Protective clothing	Apply the appropriate protective measures for safe handling of chemicals. Rubber or plastic gloves. Full face-shield and chemical splash goggles or face mask. Protective clothing, apron. Rubber boots.
Engineering controls	General ventilation normally adequate.

Section IX. Physical and Chemical Properties

Appearance (physical state, color, etc) / Odor	Clear, colorless liquid
Odor threshold	Data not available
pH	8.6- 9.0
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	Data not available
Vapor pressure	Data not available
Vapor density	Data not available
Liquid density	Data not available
% Volatile	Data not available
Specific gravity	1.135 - 1.165
Solubility	Soluble in water
Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available

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Viscosity	Data not available
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Section X. Stability and Reactivity	
Instability conditions	Stable under recommended storage conditions.
Conditions to avoid	Keep away from incompatible material
Materials to avoid	Reactive with acids. Can react violently with strong oxidizer, aluminum, magnesium, fluorine and silicon. Reacts violently with chlorine trifluoride.
Hazardous decomposition products	Carbon dioxide and potassium
Hazardous polymerization	No risk of dangerous polymerization

Section XI. Toxicological Information	
Route of exposure	Conclusion / Remarks
Skin	May cause irritation
Eye	May cause irritation
Inhalation	If inhaled, may cause irritation of respiratory tract and mucous membranes that may result in coughing, shortness of breath (dyspnea) and pulmonary edema.
Ingestion	Swallowing this material causes irritation of the digestive tract resulting in nausea, vomiting, diarrhea, thirst, and abdominal pain depending onto the amount of material ingested. May also affect cardio-vascular system. Potassium carbonate LD ₅₀ (rat - oral): 1,870 mg/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 available
Chronic Overexposure	Not available

Section XII. Ecological Information	
Ecotoxicity	Not available
Mobility	Not available
Persistence and Degradability	Not available
Bioaccumulation potential	Not available



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Section XIII. Disposal Considerations	
Disposal recommendations	Dispose of in accordance with federal, provincial and local regulations.
Disposal of damaged packaging	Data not available
Regulatory disposal information	Data not available

Section XIV. Transport Information	
T.D.G. Classification	Not classified

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: November 26 th , 2014
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