


<b>Nutrafin Water Conditioner</b>
<b>pH Adjust Up</b>
<b>A7977</b>

Section I. Product and Company Identification	
Product name	Nutrafin Water Conditioner pH Adjust Up
CAS #	Mixture
Use	To increase aquarium water's pH
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
	E (Corrosive)

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Potassium hydroxide	10-15	1310-58-3	215-181-3
Water	Q.S.	7732-18-5	231-791-2

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water for a minimum of 30 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 for a minimum of 20 minutes. If symptoms persist seek immediate medical attention.
Inhalation	If inhaled, remove patient to fresh air. If symptom persists, obtain medical attention.
Ingestion	Have conscious person drink several glasses of water or milk. 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	
Reacts with most metals to produce hydrogen gas, which could make an explosive mixture with air.	
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	

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pressure mode.

<b>Section VI. Accidental Release Measures</b>	
Person-related safety precautions	Rubber or plastic gloves. Full face-shield and chemical splash goggles or face mask. Protective clothing, apron, rubber boots.
Measures for environmental protection	DO NOT empty into drain.
Measures for cleaning/collecting	Absorb spill with inert material such as clays, sand, earth, or vermiculate and place in closed container for disposal. Clean the spill area after product complete removal.

<b>Section VII. Handling and Storage</b>	
Store away from acids. Keep container closed and in upper position. Store in cool, well-ventilated area.	

<b>Section VIII. Exposure Controls and Personal Protection</b>	
Protective clothing	Rubber or plastic gloves. Full face-shield and chemical splash goggles or face mask. Protective clothing, apron, rubber boots.
Engineering controls	General ventilation is recommended.

<b>Section IX. Physical and Chemical Properties</b>	
Appearance (physical state, color, etc) / Odor	Clear colourless and odourless.
Odor threshold	Not available
pH	13.0-13.5 @20°C
Melting point / Freezing point	0°C
Initial boiling point and boiling range	100°C
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper / Lower flammability	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

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Viscosity	Not available
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Section X. Stability and Reactivity	
Instability conditions	This product is stable under normal conditions.
Conditions to avoid	Avoid high temperatures and contamination.
Materials to avoid	React with most metals to produce hydrogen gas, which could make an explosive mixture with air.
Hazardous decomposition products	Thermal decomposition products are toxic and may include hydrogen gas.
Hazardous polymerization	Does not polymerize.

Section XI. Toxicological Information	
Route of exposure	Conclusion / Remarks
<b>Skin corrosion/irritation</b>	Causes severe burns if the exposed area is not washed away immediately.
<b>Serious eye damage/irritation</b>	Causes severe burn. Permanent blindness may occur.
<b>Respiratory or skin sensitization</b>	If inhaled, throat and throat irritation.
<b>Ingestion</b>	Swallowing this material causes severe burns to the mouth, throat and stomach. Can cause death. Potassium hydroxide Oral (LD50): Acute 273 mg/kg (rat)
<b>Germ cell 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>	Corrosive! Dangerous by ingestion, inhalation or skin absorption.
<b>Chronic Overexposure</b>	To the best of our knowledge, the chemical, physical and toxicity data of this product has not been fully investigated.

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



# MATERIAL SAFETY DATA SHEET

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

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<b>Section XIII. Disposal Considerations</b>	
Disposal recommendations	Dispose of in an approved landfill in accordance with federal, provincial and local regulations.
Regulatory disposal information	Not available

<b>Section XIV. Transport Information</b>	
TDG Class 8. PIN UN1814 POTASSIUM HYDROXIDE SOLUTION P.G. II	

<b>Section XV. Regulatory Information</b>	
Potassium hydroxide ACIGH TLV (ceiling) 2mg/M3	

<b>Section XVI. Other Information</b>	
Always wash hands after manipulation of product containers, and before eating.	
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: February 28 <sup>th</sup> , 2014
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