


Nutrafin
pH Adjust up
A7977

Section 1. Product and company Information	
Product Name	Nutrafin pH Adjust up
Product Code	A7977
Recommended Use and restrictions on Use	Raise the aquarium water pH
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency Telephone Number	Call your local poison control center

Section 2. Hazard Identification	
Classification	Acute Toxicity, Oral, Category 5 Skin Corrosion, Category 1 Serious Eye Damage, Category 1B Acute Aquatic Toxicity, Category 3 Chronic Aquatic Toxicity, Category 3
GHS Label Elements	<p>Hazard Pictograms</p>  <p>Signal Word Danger</p> <p>Hazard Statements May be harmful if swallowed. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.</p> <p>Precautionary Statement(s): Do not breath dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER/doctor/physician. Wash contaminated clothing before reuses.</p>

Nutrafin
pH Adjust up
A7977

Page 2 of 7

	Store locked up. Storage: Keep containers closed. Store locked up. Disposal: Dispose contents / containers to an approved waste disposal plant.
Other Hazards	Eyes: Causes severe eye burns. Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Skin: May be harmful if absorbed through skin. Cause skin burn. Ingestion: Toxic is swallowed.

Section 3. Composition and Information on Ingredients			
Chemical Name	CAS #	Concentration (%)	EC #
Potassium Hydroxide	1310-58-3	11-12%	215-181-3
Water	7732-18-5	Q.S.	231-791-2

Section 4. First-Aid Measures	
Inhalation	If inhaled, remove patient to fresh air and keep at rest in a comfortable position. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop seek medical attention.
Skin Contact	Remove all contaminated clothing and rinse skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing. Seek medical attention immediately.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious rinse mouth with water. Get medical attention immediately.
Most Important Symptoms and Effects, Acute and Delayed	Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Skin contact: May be harmful if absorbed through skin. Cause skin burn. Eye contact: Causes severe eye burns. Ingestion: Toxic is swallowed.
Immediate Medical Attention and Special Treatment	Specific treatments: Treat according to symptoms. Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

Nutrafin
pH Adjust up
A7977

Section 5. Fire-Fighting Measures	
Suitable Extinguishing Media	This product is not flammable. In case of fire, use extinguishing media appropriate to the surrounding fire conditions. Cool containers with water sprays.
Unsuitable Extinguishing Media	No data available.
Hazardous combustion products	Emits toxic fumes (potassium oxides) under fire conditions.
Special Protective Equipment and Precautions for Fire-Fighters	Wear self-contained breathing apparatus for firefighting if necessary. In case of fire: stop leak if safe to do so. Avoid fire-fighting water from entering environment.

Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment, and Emergency Procedures	Use adequate personal protection (section 8) . Wear protective glove and safety glass. Remove contaminated clothing immediately. Stop leak if safe to do so. Ventilate area.
Environmental Precautions	Avoid release to the environment.
Methods for Containment and Cleaning Up	Neutralize spill. Absorb spill with inert materials such as clays, sand, earth or vermiculite and place in closed container for disposal. Clean the spill area after product complete removal. Wash clothing and equipment after handling.

Section 7. Handling and Storage	
Precautions for Safe Handling	Wear adequate protective equipment (gloves and safety glasses). Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes and skin. Avoid contact with incompatible materials (See section 10).
Conditions for Safe Storage	Store in a cool place.

Section 8. Exposure Controls and Personal Protection					
Control Parameters					
Chemical Name	ACGIH® TLV®		OSHA PEL		California permissible exposure limits for chemical contaminants (Title 8, article 107)
	TWA (C)	STEL	TWA (C)	STEL	
Potassium Hydroxide	2 mg/m3		2 mg/m3		2 mg/m3
Remarks: Upper Respiratory Tract Irritation Eye Irritation Skin Irritation Derived No Effect Level (DNEL) Workers / Consumers (inhalation), Long term local effects, 1 mg/m3					

Nutrafin
pH Adjust up
A7977

Appropriate Engineering Controls	In accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day,
Individual Protection Measures	<p>Eye/Face Protection: Wear chemical safety glasses or goggles, and face shield.</p> <p>Skin Protection: Wear nitrile or rubber gloves, and full body covering. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.</p> <p>Respiratory Protection: Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an appropriate respirator.</p>

Section 9. Physical and Chemical Properties	
Appearance, Physical State and Colour	Colourless liquid
Odour	Odourless
Odour Threshold	No information available
pH	12.3 - 12.7
Melting Point and Freezing Point	No information available
Initial Boiling Point and Boiling Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Upper and Lower Flammability or Explosive Limit	No information available
Vapour Pressure	No information available
Vapour Density (air = 1)	No information available
Relative Density (water = 1)	1.080 - 1.085
Solubility in Water	Soluble in cold water, hot water.
Solubility in Other Liquids	No information available
Partition Coefficient, n-Octanol / Water (Log Kow)	No information available
Auto-Ignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Less than 10 cSt

Section 10. Stability and Reactivity	
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not available.
Incompatible Materials	Acids, organic materials, metals, copper, halogens, nitro compounds, magnesium, azides.

Nutrafin
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A7977

Hazardous Decomposition Products	Potassium oxides
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Section 11. Toxicological Information				
Likely Routes of Exposure	Ingestion. Contact with eye and skin			
Acute Toxicity				
LC50	No data available			
LD50 (oral)	Rat ≥ 90000 mg/kg			
LD50 (dermal)	No data available			
Skin Corrosion / Irritation	No data available			
Serious Eye Damage / Irritation	No data available			
STOT (Specific Target Organ Toxicity) - Single Exposure	No data available			
Aspiration Hazard	No data available			
STOT (Specific Target Organ Toxicity) - Repeated Exposure	No data available			
Respiratory and/or Skin Sensitization	No data available			
Other Injuries/Symptoms	<p>To the best of our knowledge, the chemical physical, and toxicological properties have not been thoroughly investigated.</p> <p>Skin: Damage depends on duration of contact and can include burning, itching, redness, inflammation, swelling.</p> <p>Eyes: Eye burns, watering eyes, redness.</p> <p>Respiratory: Burning, choking, coughing, wheezing, laryngitis, shortness of breath, headache.</p> <p>Ingestion: Burning, choking, nausea, vomiting, severe pain.</p>			
Carcinogenicity				
Chemical Name	IARC	ACGIH®	OSHA	NTP
The mixture or its components are either not listed or do not meet the classification criteria				
Reproductive Toxicity				
Development of Offspring	No data available			
Sexual Function and Fertility	No data available			
Effects on or via	No data available			

Nutrafin
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Lactation	
Germ Cell Mutagenicity	No data available
Interactive Effects	No data available

Section 12. Ecological Information	
Ecotoxicity	LC50 (fish) 870 mg/L
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13. Disposal Considerations	
Disposal Recommendations	Dispose of in accordance with federal, provincial and local regulations. Avoid release to the environment.
Disposal of damaged packaging	Follow all SDS and label precautions even after container is emptied.

Section 14. Transport Information				
Regulation	UN No.	Proper Shipping Name	Transport Hazard Class (es)	Packing Group
Canada TDG	UN1814	POTASSIUM HYDROXIDE, SOLUTION	8	II
US DOT	UN1814	POTASSIUM HYDROXIDE, SOLUTION	8	II
IATA	UN1814	POTASSIUM HYDROXIDE, SOLUTION	8	II
IMDG	UN1814	POTASSIUM HYDROXIDE, SOLUTION	8	II

Section 15. Regulatory Information	
Safety, Health and Environmental Regulations	<p>Canada</p> <p>Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL) All ingredients are listed on the DSL list.</p> <p>USA</p> <p>SARA 302 Components No chemical in this material are subject to the reporting requirement of SARA Title III, Section 302</p> <p>SARA 313 Components This material does not contain any chemical components with known CAS</p>

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	<p>number that exceed the threshold reporting level established by SARA Title III Section 313</p> <p>SARA 311 /312 Acute Health Hazard.</p> <p>Massachusetts Right To Know Components: Potassium hydroxide (CAS 1310-58-3);</p> <p>Pennsylvania Right to Know Components: Potassium hydroxide (CAS 1310-58-3), Water (CAS 7732-18-5).</p> <p>New Jersey Right to Know Components: Potassium hydroxide (CAS 1310-58-3), Water (CAS 7732-18-5).</p> <p>California Proposition 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.</p>
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Section 16. Other information																	
<p>HMIS RATINGS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">3</td><td style="background-color: #0000ff; color: white;">HEALTH</td></tr> <tr><td style="text-align: center;">0</td><td style="background-color: #ff0000; color: white;">FLAMMABILITY</td></tr> <tr><td style="text-align: center;">0</td><td style="background-color: #ffa500;">PHYSICAL HAZARD</td></tr> <tr><td style="text-align: center;">H</td><td>PERSONAL PROTECTION</td></tr> </table>	3	HEALTH	0	FLAMMABILITY	0	PHYSICAL HAZARD	H	PERSONAL PROTECTION	<p>NFPA RATINGS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">3</td><td style="background-color: #0000ff; color: white;">HEALTH HAZARD</td></tr> <tr><td style="text-align: center;">0</td><td style="background-color: #ff0000; color: white;">FIRE HAZARD</td></tr> <tr><td style="text-align: center;">0</td><td style="background-color: #ffff00;">REACTIVITY</td></tr> <tr><td></td><td>SPECIFIC HAZARD</td></tr> </table>	3	HEALTH HAZARD	0	FIRE HAZARD	0	REACTIVITY		SPECIFIC HAZARD
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<p>Key to abbreviations</p> <p>ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. OSHA = US Occupation Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA Guideline Foundation. WEEL™ = Workplace Environmental Exposure Limit. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program.</p>																	

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.