



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC. 20500 Trans Canada Hwy
Baie d'Urfé, Quebec H9X 0A2
CANADA

Nutrafin Water Conditioner
pH adjust up
A7977

Page 1 of 3

Section I. Product identification and uses		Section II. Hazardous ingredients	
Product name	pH adjust up	- Potassium hydroxide	8 - 10 %
Chemical formula	Mixture	CAS: 1310-58-3	
Chemical family	alkali		
Material uses	To raise pH in aquarium water.		

Section III. Physical data	
Physical state and appearance/Odour	Clear liquid, odourless.
pH	13.0-13.5
Percent volatile	> 90%
Freezing point	About 0°C
Boiling point	About 100°C
Specific gravity	1.085
Vapour density	Not available
Vapour pressure	Not available
Evaporation rate	Not available
Solubility	Soluble in water

Section IV. Fire and explosion data	
- Flash point: Not applicable - Flammable limits: Nonflammable - Auto-ignition temperature: Not applicable	
- Fire degradation products: Thermal decomposition products are toxic and may include hydrogen gas.	

Section V. Reactivity data	
- Stability: Stable under normal conditions. Avoid high temperatures and contamination.	

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- Hazardous decomposition product: Thermal decomposition products are toxic and may include hydrogen gas.
- Incompatibility: React with most metals such as aluminium, lead, tin, zinc; to produce flammable hydrogen gas.
- Reaction products: Product does not polymerize.

Section VI. Toxicological properties	
Routes of entry	
Effects of acute	Corrosive! Dangerous by ingestion, inhalation or skin absorption..
Eye	Causes severe burns. Permanent blindness may occur.
Skin	Causes severe burns if the exposed area is not washed immediately.
Inhalation	If inhaled, may cause nose and throat irritation.
Ingestion	Swallowing this material causes severe burns to the mouth, throat and stomach. Can cause death..
Effects of chronic overexposure	To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated.

Section VII. 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. If irritation persists, repeat flushing. Seek immediate medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water for a minimum of 20 minutes.
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. Obtain medical attention immediately.



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Page 3 of 3

Section VIII. Preventive measures

Protective clothing in case of spill and leak	See section IX for personal protective equipment.
Spill and leak	Absorb spill with inert materials such as clays, sand, earth or vermiculate and place in closed container for disposal. Clean the spill area after product complete removal. DO NOT empty into drain.
Waste disposal	According to all applicable regulations.
Storage and handling	Store away from acids. Store in cool, well ventilated area. Keep containers closed.

Section IX. Protective measures

Protective clothing	Rubber or plastic gloves. Chemical splash goggles. Protective clothing, apron and rubber boots.
Engineering controls	General ventilation is recommended.

Section X. Other information

Special precautions or comments	Always wash hands after product manipulation and before eating.
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