



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TransCanada HWY,
Baie d'Urfé, QUEBEC, H9X 0A2
CANADA

Laguna Water Conditioner
pH Adjust Down
PT177

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Section I. Product identification and uses		Section II. Hazardous ingredients
Product name	Laguna pH adjust down	Sulfuric Acid: 14%-18% CAS#: 7664-93-9 LMP: ACGIH TLV-STEL: 3mg\m3; ACGIH TLV-TWA: 1mg\m3. Oral LD50: Acute: 472mg/kg (rat). Vapor CL50: Acute: 225 ppm (rat in 4 hours).
Chemical formula	Mixture	
Chemical family	Acid	
Material uses	To reduce pH in pond water.	

Section III. Physical data	
Physical state and appearance/Odour	Clear liquid, odourless.
pH	<1
Percent volatile	>70%
Freezing point	Not available
Boiling point	Not available
Specific gravity	1.1-1.2
Vapour density	Not available
Vapour pressure	Not available
Evaporation rate	Not available
Solubility	Soluble in water

Section IV. Fire and explosion data
Not applicable.



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Section V. Reactivity data

Avoid high temperature and contamination.

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	Not available.

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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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 bases. Store in cool well ventilated area. Keep containers closed.

Section IX. Protective measures	
Protective clothing	Rubber or plastic gloves. Full face-shield and chemical splash goggles or face mask. 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.

Prepared by Rolf C. Hagen Inc. (514) 457-0914	Validated : October 31 st , 2008
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