



Fluval SEA
Alkalinity Supplement
A8253 / A8254 /A8255

Section I. Product identification and uses	
Product name	Marine Alkalinity Supplement
CAS #	Mixture
Use	To adjust alkalinity of aquarium water
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency	Call your local Poison Control Centre

Section II. Composition and information on ingredients				
Ingredients	Conc. (%)	CAS #	LD50	LC50
Sodium carbonate	7-13	497-19-8	Dermal: 2210 mg/kg (mouse) Oral: 4090 mg/kg (rat)	NA

Section III. Hazardous ingredients		
WHMIS	Classification	Transport of dangerous goods
 	D2B, Toxic with other effects E (aluminum and zinc surface)	Not regulated

Section IV. Physical data	
Physical state and appearance/Odour	Clear liquid / Odourless
pH	9.5-10.0
Percent volatile	Not applicable
Freezing point	Not available
Boiling point	Not available
Specific gravity	1.12-1.13
Vapour density	Not available
Odour threshold	Not available
Vapour pressure	Not available
Evaporation rate	Not available
Solubility	Soluble

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Section V. Fire or explosion risk			
Flammability conditions			
Water based product. Non flammable.			
Means of extinction			
Does not burn. Use extinguishing media appropriate for surrounding fire.			
Procedures in case of a fire			
Fire fighters should wear full protective clothing, including self-contained breathing equipment.			
Hazardous combustion materials			
Not available			
Flash point	Flammability threshold		Temp auto-ignition
Not available	Minimal	Maximal	Not available
	Not available	Not available	
Section VI. Reactivity data			
Instability conditions		Stable under normal conditions.	
Incompatible products		Slightly reactive with acids (formation of carbon dioxide). Can react violently with red hot aluminum, sulphuric acid and fluorine. Corrodes aluminum.	
Reactivity conditions		Extreme heat (400 ° C)	
Hazardous decomposition products		Carbon dioxide and sodium	

Section VII. Toxicological properties	
Routes of entry	Absorbed through inhalation and ingestion.
Effects of acute	See below
Eye	May cause eye irritation.
Skin	May cause skin irritation.
Inhalation	Vapor may cause respiratory tract and mucous membrane irritation with coughing and shortness of breath (dyspnea), pulmonary edema.
Ingestion	Sodium carbonate ingestion may cause irritation of the digestive tract resulting in nausea, vomiting, diarrhea, thirst, abdominal pain depending on concentration and amount ingested. May also affect the cardiovascular system.



MATERIAL SAFETY DATA SHEET

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

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Effects of chronic overexposure Do not induce vomiting. Seek medical attention.

Section VIII. First aid

Eye contact	Check for and remove any contact lenses. Rinse eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
Skin contact	Wash skin with mild soap and water. Take off and wash clothes before to use them again. If irritation persists, seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion	Do not induce vomiting. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Seek medical attention.

Section IX. Accidental release measures

Person-related safety precautions	Wear appropriate protective equipment.
Measures for environmental protection	Absorb with an inert dry material and place in an appropriate waste disposal container. Prevent entry into sewers, basements or confined areas; dike if needed. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Measures for cleaning/collecting	Wash with water. Dispose according to local and regional authority requirements.

Section X. Handling and storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.
Do not store in an aluminum or zinc container.

Section XI. Exposure controls and personal protection

Protective clothing	Chemical resistant gloves. Wear impervious protective clothing. Chemical safety goggles.
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Section XII. Disposal considerations

Product recommendation	Dispose of in accordance with federal, provincial and local regulations.
Uncleaned packaging recommendation	Empty containers may be recycled or discarded as general trash.



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Section XIII. Ecological information

Sodium carbonate: Aquatic toxicity:

Lepomis macrochirus: LC₅₀= 300mg/l

Nitzschia : EC₅₀= 242 mg/l

Daphnia magna : LC₅₀= 347 mg/l (24 hr), 565 mg/l (96 hr)

Prepared by Rolf C. Hagen Inc.
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