


Fluval SEA
3 Ions Supplement
A8272 / A8273 / A8274

Section I. Product identification and uses	
Product name	3 Ions Supplement
CAS #	Mixture
Use	To adjust calcium, magnesium and strontium levels in marine aquarium
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
Calcium chloride dihydrate	10-30	10035-04-8	Dermal: 2630 mg/kg (rat) Oral: 1000 mg/kg (rat)	NA

Section III. Hazardous ingredients		
WHMIS	Classification	Transport of dangerous goods
	D2B: Materials Causing Other Toxic Effects	Not regulated

Section IV. Physical data	
Physical state and appearance/Odour	Clear liquid / Odourless
pH	6.5 – 8.5
Percent volatile	Not applicable
Freezing point	Not available
Boiling point	Not available
Specific gravity	1.21 – 1.22
Vapour density	Not available
Odour threshold	Not available
Vapour pressure	Not available
Evaporation rate	Not available
Solubility	Soluble in water

Section V. Fire or explosion risk	
Flammability conditions	

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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		React violently with bromine trifluoride, or a mixture of boron trioxide and calcium oxide. Sulphuric acid yield hydrogen gas, which is corrosive, irritating and reactive.	
Reactivity conditions		Polymerize violently with methyl vinyl.	
Hazardous decomposition products		Thermal decomposition: chlorine and calcium oxide fumes.	

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Section VII. Toxicological properties	
Routes of entry	Eye, skin, inhalation and ingestion
Effects of acute	Cause irritation of gastro-intestinal mucosa, with possible ulcerations.
Eye	May cause irritation
Skin	Brief contact is essentially nonirritating to skin. May cause more severe response if skin is abraded (scratched or cut). May cause more severe response on covered skin (under clothing, gloves). Prolonged contact may cause skin irritation, even a burn.
Inhalation	Vapors are unlikely due to physical properties. Mist may cause irritation to upper respiratory tract (nose and throat)
Ingestion	Cause irritation of gastro-intestinal mucosa.
Effects of chronic overexposure	Not available

Section VIII. First aid	
Eye contact	Rinse eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
Skin contact	Wash skin with mild soap and water. If irritation persists, seek medical attention.
Inhalation	Not applicable
Ingestion	Do not induce vomiting. Seek medical attention.

Section IX. Accidental release measures	
Person-related safety precautions	Wear appropriate protective equipment.
Measures for environmental protection	Not applicable
Measures for cleaning/collecting	Wash with water. Can be flushed into sewer or water courses.

Section X. Handling and storage	
General good house keeping practices.	

Section XI. Exposure controls and personal protection	
Protective clothing	Chemical resistant gloves. Chemical safety goggles.
Engineering controls	Not applicable



MATERIAL SAFETY DATA SHEET

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

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Section XII. Disposal considerations

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

Calcium chloride dihydrate: Aquatic toxicity:

Lepomis macrochirus: LC50= 10650 mg/l

Prepared by Rolf C. Hagen Inc.
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