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This MATERIAL SAFETY DATA SHEET is supplied to you in compliance with OSHA regulations. It contains health and safety information for your employees and customers and you should make it available to them. Please feel free to copy it or request additional copies from us.

GENERAL STATEMENT: All of our products have been designed to be both effective in their intended application and safe to use when used as directed. All of our products are intended for **AQUARIUM OR REPTILE USE ONLY**. No other use is appropriate or intended. Do not use on or with fish or livestock that will be consumed by people.

GENERAL PRECAUTIONS: All products should be secured from young children. Do not drink or otherwise ingest any product. Do not get any product in the eyes. Treat all products with the same respect you would for any other household chemical products, such as bleach, drain cleaner, furniture polish, or paint. Keep all of our products away from young children or others who may not appreciate potential hazard inherent in improper handling of household chemicals.

SPECIAL PRECAUTIONS: While none of our products, used appropriately, are known to be harmful to skin, good and prudent practice recommends washing hands after use or contact. Avoid wearing contaminated clothing unless it has been washed. If swallowed, drink two glasses of milk or water. Vomiting is generally not advised. If in eyes, flush eyes with water for 10 minutes. Package sizes are too small to make large exposure likely, but if exposure is with a child or if exposure is extensive, it may be prudent to seek medical attention, particularly if exposure is to the eyes or by swallowing or if distress is experienced.

DISPOSAL: To the best of our knowledge, no ingredient in our products is classified or present in quantities unsuitable for routine drain disposal. If in doubt, consult local authorities.

HAZARD RATING: There are three generally recognized hazard-rating systems. The NFPA classifies chemicals into three fire protection hazard classes: Health, Fire, and Reactivity. Within these classes, chemicals are rated from 0 to 4, relative to the degree of hazard. All SeaChem products as formulated rate 0 for all three categories, except as noted on page 2. No Seachem product is DOT regulated. The CTCP rates commercial products based on their toxicological properties and examples of that rating system follow:

Category	Definition	lethal Dose	Household Examples	SeaChem Product examples
1	almost nontoxic	>15g/kg	sugar, propylene glycol	SeaSol, HyperSol, CupriSol, Matrix, Onyx, Pond Matrix, PhosGuard, Flourite de-nitrate, MatrixCarbon, Renew, Purigen StressGuard
2	slightly toxic	5-15g/kg	milk of magnesia, soap	
3	moderately toxic	0.5-5g/kg	table salt, baking soda	Diacus Buffer, Neutral Regulator, Alkaline Buffer, Acid Buffer, Pond pH Buffer, Pond Acid Buffer, Marine Buffer, Reef Bulder, Reef Calcium, Reef Strontium, Reef Plus, Prime, Safe, AmGuard, ParaGuard, Cupramine, Cichlid Lake Salt, Malawi/Victoria Buffer, Tanganyika Buffer, Trace, Focus, Flourish, Flourish Tabs, Pond Flourish, Reef Complete, ReefSalt, Reef Advantage, Reef Status:Calcium, Gold Salt, Gold Buffer, Flourish Potassium NooPlex, AquaZolo, PolyGuard, Reef Iodide, HealthGuard, Some MultiTest components
4	very toxic	50-500mg/kg	aspirin, malathion, tobacco	None
5	extremely toxic	5-50mg/kg	antihistamines, lyo	None
6	super toxic	<5mg/kg	food poisoning (botulism)	None



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SPECIAL INFORMATION:

Discus Buffer, Neutral Regulator, Beta Basics, Gold Basics, Central American Buffer, South American Buffer Low, South American Buffer High (Liquid & Powder versions), Flourish Phosphorus:

Contains phosphate salts. Ingestion may cause diarrhea. Eye contact will be irritating. Prolonged skin contact may be irritating.

Acid Buffer, Pond Acid Buffer:

Contains bisulfate salts. Dry or concentrated product may be corrosive and irritating. Avoid inhalation or contact.

Marine Buffer, Reef Builder, Reef Buffer, Pond pH Buffer, Malawi/Victoria Buffer, Tanganyika Buffer, Alkaline Buffer, Gold Buffer (Liquid and Powder versions where applicable):

Principal ingredients are bicarbonate and carbonate. Although not caustic, the material is moderately alkaline. Avoid contact.

RoofSalt: *Contains concentrated sea salt. Dry product may be irritating.*

Cichlid Lake Salt, Livo Bearer Salt, Reef Advantage Magnesium, Reef Advantage Strontium, Reef Advantage Calcium, Gold Salt, Pond Salt Central American Cichlid Salt:

May contain sodium or magnesium or calcium or any combination thereof, and minor salts. Dry product may be irritating.

Reef Calcium, Reef Strontium, Reef Complete, Flourish Iron, Flourish Potassium, Equilibrium, JurassiCal (Liquid and Powder), Clarity: *Contains calcium, magnesium, and/or strontium salts and/or potassium salts and/or iron salts. Non-hazardous material, but concentrated solutions may be irritating to eyes and GI tract.*

Prime, Safe, AmGuard, Liquid AmGuard, ChlorGuard, JurassiSafe [NFPA 1.1,1]:

Principal ingredients are bisulfites and hydrosulfites, aqueous solution, buffered at pH 8, with ameliorating ingredients. Reducing agents. Safe and AmGuard are solids.

If swallowed, drink at least two glasses of water followed by milk. Universal antidote (charcoal) may be useful. If individual is sensitive to sulfites, seek medical attention.

For eye exposure, flush eyes with water for 15 minutes. Seek medical attention.

ParaGuard, HealthGuard, Pond HealthGuard, Flourish Excel, StressGuard [NFPA 1,0,1]:

Principal ingredient is glutaraldehyde with ameliorating ingredients, pH 7. ParaGuard also contains malachite green. Malachite green is a possible carcinogen. Ingestion may cause severe gastric disturbance. May cause moderate irritation of mouth. If ingested, drink large quantities of milk or water. Universal antidote (charcoal) is useful. If enough is swallowed to cause distress, seek medical attention. Eye contact will cause severe irritation. Flush eyes copiously with water. Seek medical attention.

Cupramine:

Principal ingredient is complexed copper.

Ingestion may cause vomiting. If swallowed, drink two glasses of milk. In case of eye contact, flush eyes with water.

Flourish Nitrogen [NFPA 1,0,0]:

Principal ingredients are potassium nitrate and guanidine. Because this is a dilute solution relative to a straight powder any negative effects should be minimal but may include irritation of skin, eyes (if splashed into eyes) or GI tract if swallowed. If swallowed, drink water and induce vomiting and call a physician. If splashed in eyes flush with water for 15 minutes and call a physician.

Reef Iodide, Reef Dip:

Contains potassium iodide and/or complexed iodide. If ingested, take charcoal and/or induce vomiting. Seek medical attention.

Reef Plus, Flourish, Flourish Tabs, Pond Flourish, Reef Trace, Flourish Trace, Discus Trace, Cichlid Trace, Fresh Trace, Marine Trace, Gold Trace Central American Cichlid Trace, South American Cichlid Trace, JurassiVite:

Contains trace elements and/or vitamins with preservatives. Considered non-hazardous.

GarlicGuard, JurassiGuard:

Principal ingredient is garlic oil, completely safe in all respects.

Stability:

Principal ingredients: Product formulation consists of a range of naturally occurring microorganisms, which are known to be non-pathogenic to humans, livestock, and agriculture crops. Ingestion: May lead to nausea or diarrhea. Give two glasses water to dilute product. Do not induce vomiting. Contact physician. Inhalation: Asthmatic type response with sensitive individuals may occur. Remove individual to fresh air. Contact physician. Eye Contact: This material may cause eye irritation. Wash eyes thoroughly. Contact Physician Skin Contact: Slight redness on hands and forearms. Skin sensitization can develop after repeated and/or prolonged contact with human skin Wash material off skin with plenty of soap and water.

RECEIVED