

# MATERIAL SAFETY DATA SHEET

## 4 in 1 Clarifier

### SECTION I

Manufacturer: Phoenix Products  
Address: 55 Container Drive, Terryville, CT 06786  
1-860-589-7502

Date Prepared: Jan. 10, 2005  
Revised: Jan. 10, 2005  
Emergency Number: 1-800-633-8253

Chemical Name: Chitosan Acetate Solution

### SECTION II - Hazardous Ingredients and Identity Information

CAS NO.	INGREDIENT	CONCENTRATION	EXPOSURE LIMITS
9012-71-4	Chitosan	< 2.0%	OSHA PEL:N/A OSHA STEL: N/A ACGIH TLV:N/A
64-19-7	Acetic Acid	< 2.0%	OSHA PEL:N/A OSHA STEL: N/A ACGIH TLV:N/A
	Water	>96.0%	OSHA PEL:N/A OSHA STEL: N/A ACGIH TLV:N/A

### SECTION III - Physical and Chemical Characteristics

Boiling Point: 211 Deg. F  
Melting Point: N/A  
pH: Unknown  
Vapor Pressure  
Appearance/Odor: Clear Solution, Slight Odor  
VOC:N/A  
Specific Gravity: 1.004  
Soluble in Water: Yes

### SECTION IV - Fire and Explosion Hazard Data

Flash Point: N/A Flammable Limits:  
Extinguishing Media: N/A  
Special Fire Fighting Procedure: None  
Unusual Fire and Explosion Hazards: None  
Hazard Rating: Not Regulated  
Hazardous Combustion Products: N/A

**Extinguishing Media:** Does not burn. Use water or dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

**Fire Fighting Instructions:** Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

### SECTION V - Reactivity Data

Stability: Stable  
Incompatibility: N/A  
Hazardous Decomposition/Byproducts: Material is Bio-Degradable  
Decomposition Products: Decomposition will not occur.  
Hazardous Polymerization: Will not occur.

### SECTION VI - Health Hazard Data

Health Hazards:  
Carcinogenicity: Not Listed NTP: Not Listed IARC Monographs: Not Listed OSHA regulated: Not Listed  
Signs/Symptoms of Exposure: Inhalation: N/A  
Eyes: N/A  
Ingestion: N/A  
Emergency/First Aid Procedure: Inhalation:  
Eyes: Flush promptly with plenty of water. Get medical attention if irritation persists.  
Skin: Flush promptly with plenty of water. Get medical attention if irritation persists.  
Ingestion: Give large amounts of water or milk. Induce Vomiting. Get medical attention.

**In all cases seek emergency medical attention immediate.**

**Toxicological Information:**

Oral Rat LD50 (mg/kg): N/A  
IPR Rat LD50(mg/kg): N/A  
SCU Mouse, LD50(mg/kg)  
IV-Mouse, LD50(mg/kg)  
Dermal LD50(rabbit): N/A  
Eye Irritation(rabbit): N/A  
Skin Irritation(rabbit): N/A

**Ecological Information:**

Fish 96 hour LC50: N/A  
Daphnia 48 hour LC50: N/A  
Green Algae 96 hour EC50: N/A  
Fish Chronic Value(CHV): N/A  
Daphnia CHV: N/A  
Algae CHV: N/A

**SECTION VII - Precautions for Safe Handling and Use Steps To Take for Release/Spillage:**

Waste Disposal Method: Dispose of in accordance with all applicable federal, local and state environmental regulations. Material is 100% biodegradable, is nontoxic and can be disposed of in any approved manner.

Precautions for Handling and Storing: N/A

Spill: Wear suitable protective clothing. Dilute with water and hose down.

Disposal Information: Material is 100% biodegradable, is nontoxic and can be disposed of in any approved manner. Treatment, storage, transportation and disposal must be in accordance with applicable Federal / State / Provincial and Local regulations.

**SECTION VIII - Control Measures**

**Personal Protective Equipment (PPE):** Good hygiene practices should be strictly followed. Before eating, drinking or smoking, wash face and hands thoroughly. For operations where eye or face contact may occur, wear chemical goggles or face shield. Showers and eyewash facilities should be accessible.

Eye Protection: Not required with normal use.

Skin Protection: Not required with normal use.

Protective Clothing: N/A

Protective Footwear: N/A

**SECTION XIV – TRANSPORTATION INFORMATION**

DOT Proper Shipping Name:	Chemicals, N.O.S. (Non-Regulated) ( Domestic & International)
DOT Hazard Class:	Not regulated as a hazardous material
Packing Group:	Not determined
UN Number:	Not Determined
Product RQ(lbs):	No Limit
DOT label:	Miscellaneous
DOT placard:	Not required
Freight class (package):	Not determined

**SECTION VIII – OTHER INFORMATION**

The above information herein is given in good faith but no warranty, expressed or implied, is made.  
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