Dungeness Environmental
A Division of Dungeness Development Assoc.

425 481 0600

MATERIAL SAFETY DATA SHEET

1. Product Name/Identification

ChitoVan ™ Clear Trax 250

2. Composition

Active Ingredient: Chitosan Lactate (granular) – 40-80%	CAS # 90-12-76-4
Chemical name(s):	Chitosan Lactate (chitosan and lactic acid)
Lactic Acid	CAS # 598-82-3 2-Hydroxypropanoic acid – milk acid
Flocculants – Trade Secret 20-60%	
Source:	Chitosan extracted from recycled crab and shrimp shells

3. Physical/Chemical Properties

Appearance and Odor:	Dry oatmeal-like flakes.
Solubility:	Partially soluble in water
Specific Gravity:	0.4 – 0.8 grams/cubic centimeter
Boiling Point:	NA

4. Toxicological Data

Acute oral, LD50 (mice)	Not Available

5. Ecological Information

LOEC (for Rainbow trout – most sensitive species)	75 mg/l
NOEC (for Rainbow trout – most sensitive species)	37.5 mg/l
LC50 (for Rainbow trout – most sensitive species)	50.4 mg/l

6. Fire and Explosion Hazard Data

Flash Point:	n/a
Flammability:	Non-flammable
Unusual Fire and Explosion Hazards:	In the form of a solid or water solution, there is no danger of fire or explosion.
Fire Fighting Media:	Use water or foam (not flammable in nature)

7. Health Hazards Information

Acute Health Effects – Signs and Symptoms of Exposure, Emergency and First Aid Procedures:	Eye Contact: Clear Trax 250 may be irritating to eyes. Flush with water for 15 minutes to remove and call a physician. Skin Contact: Clear Trax 250 is not hazardous but cleansing the skin after use is advisable. Inhalation: If a large amount of dust is inhaled remove to fresh air and call a physician. Ingestion: If swallowed, no specific intervention is indicated as the compound is not likely to be hazardous by ingestion. However, consult a physician if necessary.
Potential Chronic Health Effects:	Long term exposure to dust may cause lung disease.
Carcinogenicity:	IARC has concluded that there is sufficient evidence in humans for the carcinogenicity of inhalation crystalline silica in the form of quartz from occupational sources.

8. Personal Protective Equipment

Respiratory Protection:	Dust mask recommended when handling.
Protective Gloves:	Not needed.
Eye Protection:	Safety glasses are recommended.
Other Protective Clothing:	Not needed.

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9. Regulatory

TSCA:	Not listed on the TSCA inventory.
OSHA:	Not considered hazardous.
EPA:	Exempt from EPA code.
SARA Section 302:	Does not have an RQ or TPQ.
SARA Section 313:	Not reportable under Section 313.
RCRA	Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a waste material containing the product, or derived from the product should be classified as a hazardous waste.

10. Storage, Handling and Disposal

Storage:	Store away from strong oxidizers.
For Spills:	Utilize protective clothing. Sweep up spilled Clear Trax 450 and dilute residual dust with water and hose down.
Waste Disposal Method:	Land disposal is acceptable as the compound is biodegradable. Follow local, state and federal regulations.
Work/Hygiene Practices:	Follow good hygienic and housekeeping practices. Clean up areas where Clear Trax 450 was used.

11. Transportation Information

DOT Shipping Name:	Chitosan Lactate
Technical Shipping Name:	Chitosan Lactate
DOT Hazard Class	Class 55, not regulated
Product RQ (lbs):	None
DOT Label:	None
DOT Placard:	None required
Product Label:	Clear Trax 450

12. Stability and Reactivity

Chemical Family:	Natural polysaccharide and proprietary flocculants
Stability:	Stable
Hazardous Polymerization:	Polymerization will not occur.
Incompatibility:	Incompatible with strong oxidants and strong bases.
Decomposition:	Decomposition will not occur.
Instability Conditions:	Stable at normal temperatures and storage conditions.
Decomposition Temperature:	NA
Decomposition Products:	NA

Prepared by: John W. Macpherson – Dungeness Environmental Revised March 2011

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