

# Material Safety Data Sheet

## Product: Quantum-1

### **Section I: Identification**

Manufacturer's Name: Ecological Laboratories, Inc.  
Cape Coral, FL 33909  
Emergency Telephone: (800)424-9300 (outside the U.S.A. (202)483-7616 collect)  
Information Telephone: (800)645-2976  
Date Prepared: 8/9/11

### **Section II: Composition/Ingredients**

<u>Component</u>	<u>CAS#</u>	<u>%</u>	<u>Counts</u>
<i>Rhodopseudomonas palustris</i>	N/A	0.6%	≥1.5 E+6 cfu/cc
<i>Bacillus pumilus</i>	N/A	0.6%	≥1.5 E+6 cfu/cc
Water	7732-18-5	70.2%	
Humic extract derived from naturally occurring peat humus	N/A	28.6%	

Note: This product is non-toxic and contains non-pathogenic bacteria.

Note: NIOSH Approved respiratory apparatus is not required.

### **Section III: Physical/Chemical Characteristics**

Appearance: Brown/Black Liquid  
Odor: Pungent distinctive earthy odor  
pH: 6.5 to 8.0  
Solubility in Water: 99% Soluble. Disperses in water  
Boiling Point: 100° C  
Vapor Pressure (mm Hg): Equivalent to water  
Vapor Density: Equivalent to water  
Specific Gravity: 1.4 approximately  
Evaporation Rate: N/D

### **Section IV: Fire and Explosion Hazard Data**

Flash Point: N/A  
LEL: N/A  
Extinguishing Media: None  
Special Fire Fighting Procedures: N/D  
Unusual Fire & Explosion Hazards: N/A

Fire & Explosion Hazard Summary: Not considered to be a fire hazard  
HMIS Rating: Health: 1  
Fire: 0  
Reactivity: 0  
Fire-Fighting Equipment/Procedure Standard fire- fighting equipment

N/A=Not Applicable N/D=Not Determined

### **Section V: Reactivity Data**

Stability: Stable under normal conditions  
Conditions to Avoid: Strong acids or alkali compounds may inactivate bio-cultures  
Incompatibility (materials to avoid): Strong acids or alkali compounds  
Hazardous Decomposition or byproducts: N/A  
Hazardous Polymerization: Will not occur

### **Section VI: Health Hazard Data**

Route(s) of Entry:  
Inhalation: Will not occur  
Skin: Prolonged contact may cause slight irritation  
Ingestion: May cause sickness if ingested in large quantities  
Health hazards: None known  
Carcinogenicity: N/A  
NTP: N/A  
ARC Monographs: N/A  
OSHA Regulated: N/A  
Sign & Symptoms of Exposure:  
Ingestion: No effect if ingested in small amounts. A single dose of this Product is rarely toxic by ingestion. Irritation of the mouth, pharynx, esophagus and stomach can develop.  
Eyes: This material may cause eye irritation  
Skin: Slight redness on hands and forearms if individual has a history of dermal allergic reactions. Dermatitis and skin sensitization can develop after repeated and/or prolonged contact.  
Medical Conditions Generally Aggravated by Exposure: May cause infection if in contact with open wounds.  
Emergency & First Aid Procedures:  
Ingestion: Call poison control center  
Eyes: Immediately flush with water for 15 minutes  
Seek medical attention if irritation persists  
Skin: Remove contaminated clothing and footwear  
Wash with soap and water.

## **Section VII: Precautions for Safer Handling and Use**

Spill or Leak:	Flush spilled materials into sanitary or storm sewers. Use chemical absorbent and sweep up small spills Contain and collect large spills
Waste and Disposal Method:	Dispose of in accordance with federal, state and local regulations.
Handling and Storing:	Minimize exposure in accordance with good hygiene practice. To maintain shelf life, avoid prolonged exposure to high or low temperatures and humidity. Avoid temperatures above 110°F/43°C and keep from freezing.
Other Precautions:	Keep out of reach of children

## **Section VIII: Control Measures**

Respiratory Protection:	None required for recommended use. Avoid creating aerosols in poorly ventilated areas.
Ventilation:	Normal
Local Exhaust:	Normal
Mechanical:	N/A
General:	None
Special:	None
Other:	None
Protective Gloves:	Rubber gloves not necessary but recommended
Eye Protection:	Safety glasses not necessary but recommended
Other Protective Equipment:	As determined
Work/Hygienic Practices:	Normal

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