



# Material Safety Data Sheet - Avir Natural Water Enzymes and Bacteria Sludge Control

## 1. Chemical Product and Company Information

Trade Name: Avir Natural Water Enzymes and Bacteria Sludge Control Revision Date: 11/05/2005  
CAS Name: Mixture  
Product Description: A concentrated non-bacterial readily biodegradable, enzymatic solution.  
Manufacturer's Name: Avir Environmental, LLC  
Address: P.O. Box 629 Denver, CO 80151 USA  
For Technical Support: 303.300.1515  
For Emergency : 303.300.1515

## 2. Composition / Information on Ingredients

Name	CAS#	WT. %	TLV
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Enzymes and Bacteria is a proprietary composition "not considered hazardous" under the OSHA Hazard Communication Standard CFR Title 29 1910.1200

## 3. Physical and Chemical Properties

Vapor Pressure: < 0.01 mm Hg @ 68°F (20°C)  
Vapor Density (air = 1): > 1  
Specific Gravity: ~1.050 @ 77° F (25° C)  
Solubility in Water: Soluble  
Volatile Organic Content: Negligible  
Appearance: Translucent, dark reddish-brown liquid  
pH: 3.75 – 4.75 @ 77°F (25° C)  
Boiling Point: > 212° F (100° C)  
Flash Point: > 212° F (100° C)  
Freezing Point: < 32° F (0 ° C)  
Viscosity: ~ 38.7 - 47.1 cP @ 77° F (25° C)  
Evaporation Rate: < 0.01 \*N-butyl acetate = 1  
Weight: 8.7 – 8.9 lb./gallon (1.0 - 1.1 Kg/liter)  
Odor: Mild

## 4. Fire Fighting Measures

Flammable Properties  
Flash Point: > 212° F (100° C)  
Method Used: Open Cup  
Flammable Limits: Does Not Apply  
Hazardous Combustion: None Known  
Extinguishing Media: Water fog or fine spray, carbon dioxide, dry chemical or foam.  
Fire Fighting Instructions: Wear self-contained breathing apparatus and protective clothing. Use water to cool containers. Turn off electrical service to eliminate source of ignition.

## 5. Accidental Release Measures

Large Spill: Contain spill. Prevent runoff from entering drains, sewers or streams. Dispose in accordance with all applicable federal, state and local health and environmental regulations.  
Small Spill: Contain spill. Follow same procedure as above for large spill.



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### 6. Hazards Identification & First Aid Measures

HMIS RATINGS: Health - 0,1,2 Fire - 0 Reactivity - 0 Personal Protection - See Section 8

Routes of Entry: Product may enter the body via eye contact, skin contact and ingestion.

#### Potential Health Effects

Eye: Eye contact with product may cause irritation. Avoid eye contact with product.

Skin: Skin contact may cause irritation. Avoid skin contact with product.

Ingestion: Swallowing may cause irritation of mouth and throat. It may also cause nausea. Do not taste or swallow product.

#### FIRST AID MEASURES

Eye Contact: Immediately flush eyes with a directed stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid. Seek Medical Attention if Irritation Persists.

Skin Contact: Flush skin with water and wash with soap and water. If clothing is penetrated, immediately remove clothing and flush skin with water. Wash clothes before reuse. Get Prompt Medical Attention If Irritation Occurs.

Ingestion: Give 2 glasses of water. Do not induce vomiting. If spontaneous vomiting is inevitable, Prevent Aspiration by keeping victim's head below the knees. Get Immediate Medical Attention.

Inhalation: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have trained person administer mouth-to-mouth resuscitation. Get Immediate Medical Attention.

### 7. Stability and Reactivity

Hazardous Polymerization: Hazardous polymerization will not occur.

Materials to Avoid: Avoid contact with strong oxidizing and reducing agents.

Conditions to Avoid: See Section 9.

Hazardous Decomposition Products: Not Known. See Section 6.

### 8. Exposure Controls, Personal Protection

#### Personal Protection

Gloves: Always wear gloves when handling this product.

Safety Glasses: Always wear eye protection. Goggles or safety glasses with side shields are recommended.

### 9. Handling and Storage

Storage Temperature: Store this product below 120° F (49° C), preferably below 75° F (24° C), in a cool, dry, well ventilated area away from heat, sparks, flame, oxidizers and out of direct sunlight. For best results use within 12 months.

General Precautions: Keep container closed when handling or storing.

### 10. Other Information

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Avir Environmental, LLC assumes no responsibility for personal injury or property damage to the Vendee, Users or Third Parties caused by the material. Such Vendees or Users assume all risks associated with the use of this material.