

## MATERIAL SAFETY DATA SHEET

### BioWorld Liquid Optimizer

#### 1: Company Identification

Advanced BioTech  
8244 W Hillsdale Ct  
Visalia, CA 93290-7899  
(559)651-5050  
(559)583-9041 Fax  
www.adbio.com

#### 2: Hazard Identification

*Potential Health Effects:*

*Eye* - may cause irritation

*Skin* - exposure to open wounds may cause infection

*Ingestion* - not harmful if ingested in small quantities, may cause stomach upset

*Inhalation* - may cause nose or throat irritation.

*Chronic (Cancer) Information* - unlikely to present a cancer hazard to humans.

#### 3: Composition / Information On Ingredients

Natural Biotechnology Formulation

99.9% liquid nutrients for microbial enhancement and reproduction including Vitamins, Minerals, Amino Acids, Polysaccharides, Esters, Alcohols, Oils, Proteins, Enzymes, Surfactants, Odor Neutralizers.

0.1% Hydrochloric Acid (for stable shelf life)

#### 4: First Aid Measures

*Inhalation* - Seek fresh air location. Contact physician if condition persists.

*Skin or Eye Contact* - Wash with plenty of water for at least 15 minutes.

*Ingestion* - Drink plenty of water. Contact physician if condition persists.

#### 5: Fire Fighting Measures

Non-flammable

Extinguishing Media - Water Spray, dry chemical, foam, CO<sub>2</sub>

#### 6: Accidental Release Measures

*Safeguards* - Review fire-fighting measures and handling personnel sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up.

Contain spill and mop up or vacuum.

#### 7: Handling and Storage

*Handling* - Do not get in eyes or on skin.

*Storage* - Do not freeze or container may break. May be stored outside.

#### 8: Exposure Control / Personal Protection

*Engineering Controls* - Use adequate ventilation to keep employee exposure to airborne concentrations below exposure limits.

*Personal Protective Equipment* - Have the following available and wear as appropriate: gloves, dust mask, safety glasses and apron.

Exposure Guidelines and Limits - None

## 9: Physical and Chemical Properties

Boiling Point - 212°F / 100°C	Vapor Pressure - 17 mm Hg	Vapor Density - N/A
Solubility in Water - 100%	Specific Gravity - 1.0028	Melting Point - N/A
Evaporation Rate - N/A	Water Reactive - No	
Appearance and Odor - Blue green and floral		

## 10: Stability and Reactivity

*Chemical Stability* - Stable  
*Incompatibility with Other Materials* - Incompatible with strong bases, oxidizing or reducing agents  
*Polymerization* - Will not occur.

## 11: Toxicological Information

Mixture not tested but, based on components, may cause irritation to skin and eyes. Ingestion may cause nausea or diarrhea. Inhalation may cause nose and throat irritation. None of the components of this material are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

## 12: Ecological Information

Biodegradable, non-toxic, non-hazardous, non-corrosive, non-pathogenic.

## 13: Disposal Considerations

*Waste Disposal* - Treatment, storage, transportation and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Can pour into sewer system or applied to open field.

## 14: Transport Information

<i>Shipping</i> - Class 55	UN # - N/R	DOT Label - N/R
Oxidizer - No	Poison - No	Flammable - No
Corrosive - No		

## 15: Regulatory Information

Not classified as hazardous to users or for transport.  
US Federal Regulations - CERCLA and SARA Regulations (40 CFR 355, 370 and 3372); Does not contain any chemicals subject to the reporting requirements of SARA 313.

## 16: Other Information

*NPCA-HMIS Rating*  
Health - 0                      Flammability - 0                      Reactivity - 0

Personal protection rating to be supplied by user depending on use conditions.

State Right-to-Know Laws - No substances on the state hazardous substances list are used in the manufacture of products on this Material Safety Data Sheet. While we have not specifically analyzed these products, the raw materials used in their manufacture, to the best of our knowledge, the products on this MSDS contain no such substances except for those specifically listed.

*Warning* - Substances known to the state of California to cause cancer, birth defects or other reproductive harm do not exist in the product.

The information is furnished gratuitously, independent of any sale, and for your independent verification. Although we believe the data to be correct as of the date indicated, we make no representation as to the accuracy and such information may not be valid when the product is used in any process or combined with other materials. No representations, guarantees, or warranty, either expressed, implied, or of any nature, are made with respect to the product or date provided.