

# **Material Safety Data Sheet**

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**Data Information as Required by OSHA Regulations**

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**Product:  
BIO-DEX  
CLEAREX 500  
Pool and Spa  
Bright 'n Clean Water Clarifier**



**BIO-DEX LABORATORIES**

**501 WEST LONE CACTUS DR.  
PHOENIX, AZ 85027**



## MATERIAL SAFETY DATA SHEET

**Product:**  
**CLEAREX 500**  
**Pool and Spa Brite 'n Clean Water**

### **Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:**  
Clearex 500

**Pool and Spa Brite 'n Clean  
Water Clarifier**

**General Use:**  
Swimming Pool  
and Spa  
Water Treatment.

**NFPA 704m/HMLS RATING:**  
Health: 0  
Flammability: 0  
Reactivity: 0

**Company Identification:**  
Bio-Dex Laboratories  
501 W Lone Cactus Dr  
Phoenix, AZ 85027  
(623) 582-2400 Fax: (623) 582-2405  
Medical Emergency – 24 Hr:  
(602) 253-3334  
Samaritan Regional Poison  
Center

**HAZARD RATING SCALE:**  
0: Insignificant  
1: Slight  
2: Moderate  
3: High  
4: Extreme

### **Section 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Based on our hazard evaluation, none of the substances in this product are hazardous.

### **Section 3. HAZARDS IDENTIFICATION**

**Primary Routes of Exposure:** Eye, Skin.

**Human Health Hazards:** Acute.

**Eye Contact:** May cause irritation with prolonged contact.

**Skin Contact:** May cause irritation with prolonged contact.

**Ingestion:** Not a likely route of exposure. No adverse effects expected.



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**Pool and Spa Bright 'n Clean Water**

<b>Section 3. HAZARDS IDENTIFICATION (CONT)</b>
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**INHALATION:** Not a likely route of exposure. No adverse effects expected.

**SYMPTOMS OF EXPOSURE:** ACUTE

A review of available data does not identify any symptoms from exposure not previously mentioned.

**CHRONIC:** A review of available data does not identify any worsening of existing conditions.

**AGGRAVATION OF EXISTING CONDITIONS:** A review of available data does not identify any worsening of existing conditions.

<b>Section 4. FIRST AID MEASURES</b>
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**EYE CONTACT:** Flush affected area with water. If symptoms develop, seek medical advice.

**SKIN CONTACT:** Remove contaminated clothing. Wash off affected area immediately with plenty of water. If symptoms develop, seek medical advice.

**INGESTION:** DON NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE. If conscious, wash out mouth and give water to drink. If symptoms develop, seek medical advice.

**INHALATION:** Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

**NOTE TO PHYSICIAN:** Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

<b>Section 5. FIRE FIGHTING MEASURES</b>
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**FLASHPOINT:** None

**EXTINGUISHING MEDIA:** This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire. Water mist may be used to cool closed containers.

**FIRE AND EXPLOSION HAZARD:** May evolve oxides of carbon (CO<sub>x</sub>) under fire conditions.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:** In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.



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<b>Section 6. ACCIDENTAL RELEASE MEASURES</b>
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**PERSONAL PRECAUTIONS:** Notify appropriate government occupational health and safety and environmental authorities. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

**METHODS FOR CLEANING UP:**

SMALL SPILLS: Soak up spill with absorbent material. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material.

**ENVIRONMENTAL PRECAUTIONS:**

This product is toxic to fish when tested in clean purified water. It is not toxic to fish when added to cloudy, dirty water.

<b>Section 7. HANDLING AND STORAGE</b>
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**HANDLING:** Do not take internally. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure containers are labeled. Avoid eye and skin contact.

**STORAGE CONDITIONS:** Store separately from oxidizers. Store the containers tightly closed.

<b>Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**OCCUPATIONAL EXPOSURE LIMITS:**

This product does not contain any substance that has an established exposure limit.

**ENGINEERING MEASURES:**

General ventilation is recommended.

**RESPIRATORY PROTECTION:**

Respiratory protection is not normally needed.

**HAND PROTECTION:**

Nitrite gloves, PVC gloves.

**SKIN PROTECTION:**

Wear standard protective clothing.

**EYE PROTECTION:**

Wear chemical splash goggles.



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### **Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT.)**

**HYGIENE RECOMMENDATIONS:**

Keep an eye wash fountain available. Keep a safety shower available.

### **Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE:</b>	Liquid
<b>APPEARANCE:</b>	Colorless Light Gold
<b>ODOR:</b>	None
<b>SPECIFIC GRAVITY:</b>	1.01 - 1.04
<b>DENSITY:</b>	8.4 – 8.6 Lbs/Gal
<b>SOLUBILITY IN WATER:</b>	Complete
<b>pH (100 %)</b>	7.00 – 7.9

### **Section 10. STABILITY AND REACTIVITY**

**STABILITY:**

Stable under normal conditions.

**HAZARDOUS POLYMERIZATION:**

Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:**

Freezing temperatures.

**MATERIALS TO AVOID:**

Contact with strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

N/A

### **Section 11. TOXICOLOGY INFORMATION**

**ACUTE ORAL TOXICITY:**

Rating: Non-Hazardous.

**ACUTE DEMERAL TOXICITY:**

Rating: Non-Hazardous.



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## **MATERIAL SAFETY DATA SHEET**

### **Product: CLEAREX 500 Pool and Spa Bright 'n Clean Water**

#### **Section 11. TOXICOLOGICAL INFORMATION (CONT.)**

##### **PRIMARY SKIN IRRITATIONS:**

Rating: Minimally irritating.

##### **PRIMARY EYE IRRITATIONS:**

Rating: Practically non-irritating.

##### **CARCINOGENICITY:**

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTB) or the American Conference of Governmental Industrial Hygienist (ACGIH).

##### **HUMAN HAZARD CHARACTERIZATION:**

Based on our hazard characterization, the potential human hazard is: Low.

#### **Section 12. ECOLOGICAL INFORMATION**

##### **ECOTOXICOLOGICAL EFFECTS:**

Product would pose no potential environmental hazards.

#### **Section 13. DISPOSAL CONSIDERATIONS**

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

#### **Section 14. TRANSPORT INFORMATION**

Proper Shipping Name/Hazard Class may vary by packaging, properties, and mode transportation. Typical Proper Shipping Names for this product are: Clearex 500 Pool and Spa Brite'n Clean Water Clarifier.

**LAND TRANSPORT:** Proper Shipping Name: Product is not regulated during transportation.

#### **Section 15. REGULATORY INFORMATION**

##### **NATIONAL REGULATIONS, USA:**

##### **OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:**

Based on our hazard evaluation, none of the substances in this product are hazardous.



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## **MATERIAL SAFETY DATA SHEET**

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<b>Section 15</b>	<b>REGULATORY INFORMATION (CONT.)</b>
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**CERCLA/SUPERFUND, 40 CFR 117, 302:**

Notification of spills of this product is not required.

**SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) – SECTIONS 302, 311, 312, AND 313:**

**SECTION 302 – EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):**

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

**SECTION 311 AND 312 – MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):**

Our hazard evaluation has found that this product is not hazardous under 29 CFR 1910.1200. Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds of the threshold planning quantity TPQ, whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**SECTION 313 – LIST OF TOXIC CHEMICALS (40 CFR 371):**

This product does not contain substances on the List of Toxic Chemicals.

**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

The chemical substances in this product are on the TSCA 8(b) Inventory (40 CFR 710).

**FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT 40 CFR 401.15/ formerly Sec. 307, 40 CFR/ formerly Sec. 311:**

None of the substances are specifically listed in the regulation.

**CLEAN AIR ACT, Sec 111 (40 CFR 60, Volatile Organic Compounds), Sec 112 (40 CFR 61, Hazardous Air Pollutants), Sec 602 (40 CFR 82, Class I and II Ozone Depleting Substances):**

None of the substances are specifically listed in the regulation.

**CALIFORNIA PROPOSITION 65:**

This product does not contain substances which require warning under California Proposition 65.

**MICHIGAN CRITICAL MATERIALS:**

None of the substances are specifically listed in this regulation.

**STATE RIGHT TO KNOW LAWS:**

This product does not contain substances which require warning with State Right to Know Laws.

**NATIONAL REGULATIONS, CANADA:**

**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.



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## **MATERIAL SAFETY DATA SHEET**

### **Product: CLEAREX 500 Pool and Spa Bright 'n Clean Water**

<b>Section 15</b>	<b>REGULATORY INFORMATION (CONT.)</b>
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**WHMIS CLASSIFICATION:**

Not considered a WHMIS controlled product.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):**

All substances in this product are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

<b>Section 16</b>	<b>OTHER INFORMATION</b>
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This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

### **REFERENCES**

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™ CD-Rom Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, MD (TOMES CPS™ CD ROM Version), Micromedix, Inc., Englewood, CA.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD ROM Version), Micromedix, Inc., Englewood, CA.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, par 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™ CD-Rom Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™ CD ROM Version), Micromedix, Inc., Englewood, CA.





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<b>Section 16. OTHER INFORMATION</b>
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Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North America Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-Rom Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD ROM Version), Micromedix, Inc., Englewood, CA.