

Material Safety Data Sheet

Data Information as Required by OSHA Regulations

Product:

BIO-DEX

**AQUADEX 50
STAIN OFF**



BIO-DEX LABORATORIES

**4212 W INNOVATIVE DR.
PHOENIX, ARIZONA 85086**

Bio-Dex Laboratories
4212 W. Innovative Dr. Phoenix, AZ 85086
www.bio-dex.com (800) 617-3477

12/08/2010



MATERIAL SAFETY DATA SHEET

Product: AQUADEX 50 STAIN OFF

Section 1 –CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:
AQUADEX 50 STAIN OFF

Company Identification:
Bio-Dex Laboratories
4212 W. Innovative Dr.
Phoenix, AZ 85086
(623) 582-2400 Fax: (623) 582-2405
Medical Emergency – 24 Hr:
(602) 253-3334
Samaritan Regional Poison
Center

Section 2 – COMPOSITION/INFORMATION on INGREDIENTS

Proprietary Formula

Section 3. HAZARDS IDENTIFICATION

Eye: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

Skin: Prolonged or repeated exposure may cause moderate skin irritation, with local redness. Repeated contact may cause skin burns. May cause more severe response if skin is abraded (scratched or cut). Not classified as corrosive to the skin according to DOT guidelines. A single prolonged skin exposure is not likely to result in the material being absorbed through skin in harmful amounts.

Ingestion: Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing larger amounts may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of the mouth and throat.

Inhalation: Vapors are primarily water; single exposure is not likely to be hazardous. Mist may cause irritation of upper respiratory tract (nose and throat).

Section 4. First Aid Measures

Eye: Wash immediately and continuously with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential

Skin: Wash off in flowing water or shower.

Ingestion: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility. Do not give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air if effects occur, consult a physician.

Note to Physician: May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophageal control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive Care. Treatment based on judgment of the physician in response to reactions of the patient.

Section 5 – FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: Not Applicable

Method Used: Not applicable.

Autoignition Temperature: Not Applicable

Flammability Limits

LFL: Not Determined.

UFL: Not Determined

Hazardous Combustion Products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and /or irritating compounds. Hazardous combustion products may include and are not limited to: Nitrogen oxides, Carbon Monoxide, Carbon Dioxide.

Other Flammability Information: This material will not burn until the water has evaporated. Residue can burn.

Extinguishing Media: To extinguish combustible residues of this product use water fog, Carbon Dioxide, Dry Chemical, or Foam.

Fire Fighting Instructions: Keep people away. Isolate fire area and deny unnecessary entry. To extinguish combustible residues of this product use water fog, Carbon Dioxide, Dry Chemical, or Foam.

Protective Equipment for Fire Fighters: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6 – ACCIDENTAL RELEASE MEASURES

(See Section 15 for Regulatory Information)

Personal Precautions: Clear non-emergency personnel from area.

Protect the Environment: Keep out of sewers, storm drains, surface waters and soil.

Cleanup: Contain spill if possible. Absorb with materials such as: Dirt, sand. Collect in suitable and properly labeled containers. Clean up with non-combustible absorbent.

Section 7 – HANDLING AND STORAGE

Handling

General Handling: Do not get in the eyes. Do not swallow. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Storage: Do not store in Zinc, Aluminum, Carbon Steel, Copper, Copper Alloys, Nickel.

Section 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Personal Protective Equipment:

Eye/Face Protection: Use chemical goggles. Eye wash fountain should be located in immediate work area.

Skin Protection: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as face shield, gloves, boots, apron, or full-body suit will depend on operation. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

Respiratory Protection: In misty atmospheres, use an approved mist respirator.

Exposure Guideline(s): Sodium Hydroxide: ACGIH TLV and OSHA PEL are 2 MG/M3 ceiling. PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Light yellow liquid

Odor: Slight ammoniacal

Vapor Pressure: Same as water

Vapor Density: Same as water

Boiling Point: 225F, 107C

Solubility in water/miscibility: Completely miscible

Specific Gravity: 1.29 @ 25/25C

Freezing Point: -30F, -34C

Section 10 – STABILITY AND REACTIVITY

Chemical Stability: Thermally stable at typical use temperatures.

Conditions to Avoid: Active ingredient decomposes at elevated temperatures.

Incompatibility with Other Materials: Flammable hydrogen may be generated from contact with metals such as aluminum. Avoid contact with: Oxidizers

Hazardous Decomposition Products: Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.

Hazard Polymerization: Will not occur.

Thermal Decomposition: Decomposition products depend upon temperature, air supply and the presence of other materials.

Section 11 – TOXICOLOGICAL INFORMATION

Skin: The Dermal LD50 has not been determined.

Ingestion: The Oral LD50 for male rate is between 4000-8000 MG/KG.

Mutagenicity: For Trisodium Nitrolitriacetate in vitro mutagenicity studies were negative in some cases and positive in other cases. Animal mutagenicity studies were predominantly negative.

Repeated Dose Toxicity: For the minor component(s): In animals, effects have been reported on the following organs: Kidney. Urinary tract. In animals, has been shown to cause deposition of calcium salts in various urinary tract tissues.

Chronic Toxicity and Carcinogenicity: For the minor component(s): Large dietary doses have caused urinary tract tumors in laboratory animals. However, the relevance of this to humans is unknown.

Genetic Toxicology: Contains component(s) which were negative in some in vitro genetic toxicity studies and positive in others. For the component (s) tested: Animal genetic toxicity studies were predominantly negative.

Section 12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Movement & Partitioning: Based largely or completely on information for Bioconcentration potential is low (BCF less than 100 or LOG POW less than 3).

Degradation & Persistence:

Based on information for a similar material: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 > 100mg/L in the most sensitive species tested).

Ecotoxicity: Material is practically non-toxic to fish on an acute basis (LC50 greater than 100 MG/L) in the most sensitive species tested.

Section 13 – DISPOSAL CONSERIATIONS

Disposal: Do not dump into any sewers, or on the ground.. All disposal methods must be in compliance with all federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility

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solely of the waste generator. BIO-DEX LABORATORIES has no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in MSDS Section 2 (COMPOSITION/INFORMATION ON INGREDIENTS).

As a service to its customers, BIO-DEX can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone BIO-DEX'S customer information center at 800-617-3477 for further details.

Section 14 – TRANSPORT INFORMATION

DOT Non-Bulk

Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, NOS

Technical Name: Trisodium (hydroxyethyl) ethylenediamine triacetate, SODIUM HYDROXIDE

Hazard Class: 8 ID Number: UN3267 Packing Group: III

DOT Bulk:

Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, NOS

Technical Name: Trisodium (hydroxyethyl) ethylenediamine triacetate, SODIUM HYDROXIDE

Hazard Class: 8 ID Number: UN3267 Packing Group: III

IMDG:

Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, NOS

Technical Name: Trisodium (hydroxyethyl) ethylenediamine triacetate, SODIUM HYDROXIDE

Hazard Class: 8 ID Number: UN3267 Packing Group: III

EMS Number: F-A, S-B

ICAO/IATA

Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, NOS

Technical Name: Trisodium (hydroxyethyl) ethylenediamine triacetate, SODIUM HYDROXIDE

Hazard Class: 8 ID Number: UN3267 Packing Group: III

CARGO Packing Instruction: 820

Passenger Packing Instruction: 818

Section 15 – REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard Yes

Delayed (Chronic) Health Hazard Yes

Fire Hazard: No

Reactive Hazard: No

Sudden Release of Pressure Hazard: No

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for Health and Safety information.

US. Toxic Substances Control Act (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory Under 40 CFR 720.30

CEPA – Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

State Right-to-Know: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
Formaldehyde	000050-00-0	PA2
Sodium Hydroxide (Solution)	001310-73-2	NJ1 NJ3 PA1 PA3

NJ1= New Jersey Special Health Hazard Substance (Present at greater than or equal to 0.1%)
 NJ3= New Jersey Workplace Health Hazardous Substance (Present at greater than or equal to 1.0%).
 PA1= Pennsylvania Hazardous Substance (Present at greater than or equal to 1.0%).
 PA2= Pennsylvania Special Hazardous Substance (Present at greater than or equal to 0.01%).
 PA3= Pennsylvania Environmental Hazardous Substance (Present at greater than or equal to 1.0%).

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical (s) known to the State of California to cause cancer.
 Component CAS# Amount

Formaldehyde	50-00-0	<=0.099%
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OSHA Hazard Communication Standard:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29, CFR 1910. 1200.

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

Hazardous Products Act Information: This product contains the following ingredients which are controlled products and/or on the ingredient disclosure list (Canadian HPA Section 13 and 14):

Components:	CAS#	Amount (%W/W)
Trisodium Hydroxyethylethylenediaminetriacetate	CAS# 000139-89-9	38%
Disodium Hydroxyethylethylenediaminediacetate	CAS# 062099-15-4	2%
Trisodium Nitritotriacetate	CAS# 005064-31-3	1%

Section 16 – OTHER INFORMATION

Hazard Rating System:

NFPA	HEALTH	FIRE	REACTIVITY
	3	1	0

NOTICE: BIO-DEX Laboratories Expressly disclaims all express or implied warranties or merchantability and fitness for a particular purpose, with respect to the product or information provided herein. And shall under no circumstances be liable for incidental or consequential damages.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, BIO-DEX LABORATORIES makes no representations as to its accuracy or sufficiency. Conditions of use are beyond BIO-DEX Laboratories control. Therefore, users are responsible to verify this data under their own conditions and determine whether the product is suitable for their particular purposes, and assume all risks of their use, handling, and disposal of the product or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or in any other process.