

Material Safety Data Sheet

Data Information as Required by OSHA Regulations

Product:

**BIO-DEX
300 TILE CLEANER**



BIO-DEX LABORATORIES

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



MATERIAL SAFETY DATA SHEET

Product: 300 TILE CLEANER

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:
#300 Tile Cleaner

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

General Use:
Specifically for cleaning
swimming pool tile around top
perimeter of swimming pool.

Packaging:
32 oz Heavy Duty Plastic Bottles
Safety pack – 3 bottles in heavy
duty sealed poly bags.

Cartons:
Bio-Dex Custom Specifications
Heavy Duty 350 lb. Test

NFPA 704M/HMLS RATING:
Health: 3
Flammability: 0
Reactivity: 0

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

Section 2. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients:

Muriatic Acid: Hazardous CAS No: 7647-01-0
Hydrofluoric Acid : Hazardous- CAS No.7664-39-3

Listed On:

IRAC – NO
NTP – NO

Exposure Limits:

Muriatic Acid – PEL = 5ppm – TLU: 5ppm
Hydrofluoric Acid – PEL = No Data – TLU 3ppm

OSNA SUB PART C – NO
CERCLA – YES
RCRA – YES
SARA – 302 - YES

Section 3. HAZARDS IDENTIFICATION

“Emergency overview”

Corrosive. Can cause severe burns to eyes and skin and digestive tract. Wear protective eye goggles and rubber gloves when handling. Do not inhale fumes. Do not take internally. Use outdoors in fresh air *only*. Do not get in eyes, on skin, or on clothing.

Human Health Hazards: Acute and Chronic.

Primary Routes of Exposure: Eyes, skin, inhaling, ingestion.

Target Organs: Eyes, skin, respiratory tract, gastronomical tract.

Irritancy: All routes of exposure



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Section 3. HAZARDS IDENTIFICATION (CONT.)
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Sensitizing Capability: None known.

Reproduction Effects: None known.

Carcinogenicity: Not known to be carcinogenic.

Inhalation: Can cause severe irritation. See section No. 4 – FIRST AID MEASURES.

Eyes: Can cause severe irritation. See section No. 4 – FIRST AID MEASURES

Skin: Contact may cause burns. See section No. 4 – FIRST AID MEASURES

Ingestion: Can cause sever burns to the mucous membranes of the digestive tract.

Repeated Exposure: (Chronic) None known.

Synergistic Materials: None known.

Medical Conditions Aggravated by Exposure: Pre-existing disorders affecting target organs.

Section 4. FIRST AID MEASURES

Eyes:

Immediately flush eyes with running water for at least 15 minutes, holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes very quickly is essential to achieve maximum effectiveness. Get immediate medical attention.

Skin:

Wash thoroughly the affected area with cold water. Remove contaminated clothing and shoes. Wash clothing before reuse. Discard non-rubber shoes. Get medical attention promptly. Calcium Carbonate Gel (2.5%) should be rubbed in continuously until any pain has subsided. Alternate treatment is to use iced aqueous or alcohol solution, 0.13% of Benzylaknium (Zephiran Chloride) Chloride, or an ICE COLD saturated solution of Magnesium Sulphate (Epsom Salts) applied for 30 minutes.

Inhalation:

Remove person to fresh air. If breathing is difficult, administer oxygen. Call a physician immediately.

Ingestion:

Remove person immediately to fresh air area. If swallowed, it can cause severe burns to the mucous membranes of the mouth, throat and stomach. Immediately drink a large amount of water or milk of magnesia. **DO NOT INDUCE VOMITING.** Call a physician immediately. Never give anything by mouth to an unconscious person.

Repeated Exposure: Chronic. None known.

Synergistic Materials: None known.

Medical conditions aggravated by exposure:

Pre-existing disorders affecting target organs.



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Section 5. FIRE FIGHTING MEASURES
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Flammability Limits: Not Applicable.

Flash Point: Non-flammable, Non-combustible.

Flammability Clarification: This material does not burn or support combustion.

Extinguishing Media: Use CO₂ dry chemical or foam, or water spray appropriate for surrounding fires.

Fire fighters should wear a NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

Sensitivity to Mechanical Impact:

Not sensitive.

Sensitivity to Static Discharge:

Not sensitive.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Evacuate area of spilled material. Do not touch spilled material. Put on rubber gloves and approved NIOSH face protective equipment. Contain spilled material with water and neutralize using lime. Soak up spilled material and place in suitable covered, properly labeled container. Contact an approved waste hauler for disposal of contaminated recovered material. Small amounts of recovered product may be flushed down drains using large amounts of water to dilute it. Drains and sewers should then be neutralized with lime slurry to prevent deterioration around drain/sewer area.

Environmental Precautions:

This product is toxic to fish. Do not discharge into lakes, ponds, streams, waterways or public water supplies.

Section 7. HANDLING AND STORAGE
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Handling:

Wear rubber gloves and protective eye goggles when handling product.

Do not take internally.

Have emergency equipment available.

Ensure that containers are labeled.

Avoid eye and skin contact.

Storage:

Store separately from oxidizers.

Keep container tightly closed.

Store in a cool, ventilated area away from incompatible materials.



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Section 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION
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Engineering Controls:

Use product outdoors, in fresh air environment only.

Respiratory:

Wear an NIOSH/OSHA approved protective respirator when airborne contaminants may occur.

Eyes:

Wear approved type safety goggles. When appropriate, wear a NIOSH full face approved respirator to protect against splashing. (ANSI-Z87.1).

Hands:

Wear rubber or neoprene type gloves when handling product.

Other:

Emergency eye wash facility and shower should be in close vicinity. (ANSI-Z358.1)

Section 9. PHYSICAL AND CHEMICAL PROPERTIES
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Physical State:

Liquid

Appearance:

Brown Color

Odor:

Slight

Specific Gravity:

1.18 – 1.22

Density:

9.5 – 10lbs/6AL (AIR = 1)

Solubility In Water:

Complete.

Vapor Pressure:

ND.

Evaporation Rate:

ND.

% Volatile:

ND.

Section 10. HANDLING AND STORAGE

Stability:

Stable

Hazardous Polymerization:

Will not occur.

Conditions to Avoid:

Contact with alkalies, cyanides.

Hazardous Decomposition Products:

ND.



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Section 11. TOXICOLOGICAL INFORMATION
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Acute Oral Toxicity:	Rating hazardous.
Acute Dermal Toxicity:	Rating hazardous.
Primary Skin Irritation:	Can cause burns.
Primary Eye Irritation:	Can cause burns.
Carcinogenicity:	Not carcinogenic.
Human Hazard Classification:	Corrosive.
Potential Human Hazard:	High.

Section 12. ECOLOGICAL INFORMATION

Aquatic Life:	Acutely toxic.
Other:	No data available.

Section 13. DISPOSAL CONSIDERATIONS
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The material resulting from clean-up operations may be hazardous wastes and subject to specific regulations. Dispose of all (clean-up) materials and contaminated equipment in accordance with all applicable Federal, State and Local regulations.

Section 14. TRANSPORT INFORMATION
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DOT Proper Shipping Name:
Corrosive Liquid. Acidic Inorganic nos (Muriatic Acid, Hydrofluoric Acid) or Consumer Commodity ORM-D in Limited Quantities.

DOT Hazard Class:
Class 8: Corrosive material
UN number: UN3264

This version replaces the previous version dated 09/08/2004.

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