

# **Material Safety Data Sheet**

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**Data Information as Required by OSHA  
Regulations**

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**Product:**

**BIO-DEX**

**SKILL-IT**

**ALGAECIDE**

**SWIMMING POOL WATER TREATMENT**



**BIO-DEX LABORATORIES**

**4212 W. Innovative Dr.**

**Phoenix, Arizona 85086**

Bio-Dex Laboratories  
4212 W. Innovative Dr.  
Phoenix, Arizona 85086

<b>Section 1. CHEMICAL PRODUCT AND COMPANY</b>
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**IDENTIFICATION****Product Name:**

SKILL – IT ALGAECIDE

**Product Use:**

Surfactant

**NFPA 704m/HMLS****RATING:**

Health: 3

Flammability: 2

Reactivity: 0

PPE: X

**HAZARD RATING SCALE:**

0: Insignificant

1: Slight

2: Moderate

3: High

4: Extreme

**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

**Product Class:** Quaternary Ammonium

Compound

<b>Section 2. Composition/Information on Ingredients</b>
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Ingredient	WT%	CAS #
Alkyl dimethyl benzyl ammonium chloride	49.8	53516-76-0
Dialkyl methyl benzyl ammonium chloride	0.2	73049-75-9
Isopropanol C.A.S. No. 67-63-0	10	67-63-0
Water	40.0	7732-18-5

<b>Section 3. Hazards Identification</b>
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**Emergency Overview:** Clear light blue colored liquid. Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.**Potential Health Effects:****Rules of Entry:** Skin Contact, Inhalation, Eye Contact**Inhalation:** Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness.**Eye Contact:** Corrosive. Severe eye damage can result from direct contact.**Skin Contact:** Causes corrosive burns.**Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea..**Chronic:** None

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<b>Section 4.</b>	<b>First Aid Measures</b>
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**Eye:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.

**Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Note to physician:** Probably mucosal damage may contraindicate the use of gastric lavage.

<b>Section 5.</b>	<b>Fire Fighting Measures</b>
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**Flash Point:** 120°F (48.8°C) – Pensky Martin Closed Cup

**Extinguishing Media:** Dry Chemical, foam, carbon dioxide or water fog. Solid water streams may spread burning liquid.

**Unusual Fire Explosion Hazards:** Explosive mixtures can form with air. Combustion products are toxic. Solvents vapors can travel to an ignition source and flash back.

**Flash Point:** 120°F (48.8°C) – Pensky Martin Closed Cup

**Extinguishing Media:** Dry Chemical, foam, carbon dioxide or water fog. Solid water streams may spread burning liquid.

**Upper & Lower Flame Limits:** Not Determined

**Special Fire Fighting Procedures:** Cool fire exposed containers with spray. Must wear MSHA/NIOSH approved self contained breathing apparatus.

**Upper & Lower Flame Limits:** Not Determined

**Special Fire Fighting Procedures:** Cool fire exposed containers with spray. Must wear MSHA/NIOSH approved self contained breathing apparatus.

<b>Section 6.</b>	<b>Accidental Release Measures</b>
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**Spill and Leak Procedures**

**Emergency Action:** Isolate spill or leak area immediately. Eliminate all ignition sources (no smoking, flares, sparks or flames) in immediate area.

**Spill Cleanup:** Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

**Large Spills:** Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor but will increase foaming. Water may not prevent ignition in closed spaces.

<b>Section 7.</b>	<b>Handling &amp; Storage</b>
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**Handling and Storage:**

Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Keep from freezing. Keep the container tightly closed and in a cool, well-ventilated place. Do not handle or store near open flame, heat or other sources of ignition. Store in original container.

<b>Section 9.</b>	<b>Physical &amp; Chemical Properties</b>
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**Boiling Point:** ND

**Percent Volatile:** (by weight) 50%

**Solubility in Water:** Soluble

**Appearance and Odor:** Clear light blue color.

**Specific Gravity:** (H<sub>2</sub>O = 1) 0.95

**Flash Point:** 120 degrees F PMCC

**VOC Content:** 10%

**Vapor Density:** Not determined

**pH 6-8**

**Evaporation Rate Butyl Acetate = 1 ND**

**Vapor Pressure approximately 24mmHg**

**Lower Explosion (%):** ND

**Upper Explosion (%):** ND

<b>Section 10:</b>	<b>Stability &amp; Reactivity</b>
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**Chemical Stability:** Material is stable.

**Conditions to avoid:** Keep away from heat and strong oxidizing agents.

**Incompatibilities:** Strong oxidizing agents (may result in fire.), reducing agents.

**Hazardous Decomposition:** Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.

**Hazardous Polymerization:** Will not occur.

<b>Section 11.</b>	<b>Toxicological Information</b>
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**Carcinogenicity:** No Carcinogenicity data available for this product.

**Acute Oral DD60** 760 mg/kg for males and females combined.

**Acute Dermal** greater than 1700 mg/kg.

**Primary Skin** – Corrosive

**Primary Eye** – Corrosive

<b>Section 12.</b>	<b>Ecological Information</b>
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**Ecotoxicity:** No data available for this product

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<b>Section 13. Disposal Considerations</b>
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This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 2621, 263, 264, and 268. Additionally, the discarding or disposal of the material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

<b>Section 14. Transport Information</b>
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**DOT Hazard Class: 8 Corrosive**

UN1903, Disinfectants, Liquid, Corrosive N.O.S.(Quaternary Ammonium Compound), 8, P.G.II

ORM-D in Limited Quantities

<b>OTHER INFORMATION:</b>
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**Current Issue Date: 12/07/2010**

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**Changes from Previous Issue Date: New format, various typos.**

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