



# Safety Data Sheet (SDS)

## BIO-DEX LABORATORIES, LLC

### SKILL-IT Algacide

SDS Number: 237

Revision Date: 5/2/2015

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## 1 PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

BIO-DEX LABORATORIES, LLC  
 4212 W. INNOVATION DR.  
 PHOENIX, AZ 85086

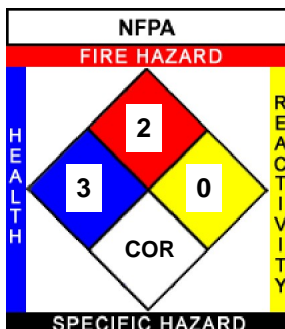
**Contact:** BIO-DEX LABORATORIES, LLC  
**Phone:** 800-617-3477 // 623-582-2400  
**Web:** www.bio-dex.com

**Product Name:** SKILL-IT Algacide  
**Revision Date:** 5/2/2015  
**Version:** 1.00  
**SDS Number:** 237  
**CAS Number:** MIXTURE  
**EPA Number:** 10324-19-35056  
**Chemical Family:** Inorganic Salt Solution  
**Chemical Formula:** \*\*\* PROPRIETARY \*\*\*  
**Synonyms:** Swimming Pool Water Treatment  
**Product Use:** Algae and Slime Control  
**Emergency Phone:** (800) 424-9300 (CHEMTREC)

## 2 HAZARDS IDENTIFICATION

NFPA:  
 HMIS III:

Health = 3, Fire = 2, Reactivity = 0  
 H\*3/F2/PH0



HMIS III	
HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARDS	0
PERSONAL PROTECTION <b>C   Safety Glasses,            Gloves, Apron</b>	

PERSONAL PROTECTION INDEX			
A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A		n	
o		p	
q		r	
s		Additional Information	
t		u	
w		y	
z			



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GHS Signal Word:

DANGER

GHS Hazard Pictograms:



GHS Classifications:

Physical, Flammable Liquids, 3  
Health, Acute toxicity, 4 Oral  
Health, Acute toxicity, 4 Dermal  
Health, Skin corrosion/irritation, 1 B  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Specific target organ toxicity - Single exposure, 3  
Environmental, Hazards to the aquatic environment - Acute, 1

GHS Phrases:

H226 - Flammable liquid and vapor  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H336 - May cause drowsiness or dizziness  
H400 - Very toxic to aquatic life

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P262 - Do not get in eyes, on skin, or on clothing.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+352 - IF ON SKIN: Wash with soap and water.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P321 - Specific treatment (see supplementary first aid instructions on this label).  
P362 - Take off contaminated clothing and wash before reuse.  
P370+378 - In case of fire: Use dry chemical, alcohol-resistant foam, carbon dioxide or water fog for extinction.  
P391 - Collect spillage. Hazardous to the aquatic environment.



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P403+235 - Store in a well ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Cas #	Percentage	Chemical Name
N/A	40.2-45.2%	Proprietary, non-hazardous, non-regulated
N/A	49.8%	Trade Secret*
67-63-0	5-10%	Isopropyl alcohol

\*The specific chemical identities of the ingredients of this mixture labeled as "Trade Secret" are considered to be proprietary and are withheld in accordance with the provisions of 29CFR1910.1200 Sect. (i) Trade Secrets.

### 4 FIRST AID MEASURES

- Inhalation:** Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- Skin Contact:** Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Remove contaminated clothing and wash before reuse. If reddening develops and/or persists, obtain medical attention. Wash contaminated clothing before reuse.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention. Continue rinsing eyes during transport to hospital.
- Ingestion:** Rinse mouth with water. Do NOT induce vomiting unless instructed to do so. Give 3-4 glasses of water or milk to dilute stomach contents. Never give anything by mouth to an unconscious person. Contact a Poison Control Center for advice. Seek immediate medical attention.

#### Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

#### Indication of any immediate medical attention and special treatment needed:

No data available.

### 5 FIRE FIGHTING MEASURES

- Flammability:** Combustible Liquid Class II
- Flash Point:** 48.8 °C (120.0 °C)
- Flash Point Method:** (PCC)
- Burning Rate:** No data available
- Autoignition Temp:** Not determined
- LEL:** Not determined
- UEL:** Not determined

#### Extinguishing Media:

Water Fog  
Carbon Dioxide



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Alcohol-Resistant Foam  
Dry Chemical

**Special Hazards Arising From the Substance or Mixture:**

Ammonia  
Carbon Oxides  
Hydrochloric Acid gas  
Nitrogen Oxides (NOx)  
Sodium Oxides

**Advice for Firefighters:**

Firefighters should wear full-face, positive-pressure respirators.

**Further Information:**

If incinerated, may release toxic fumes.  
Use water spray to cool unopened containers.  
Do NOT use high volume water jet to extinguish fire, as the force of the water jet may cause fire to spread.  
See Section 7 for more information on safe handling.  
See Section 8 for more information on personal protection equipment.  
See Section 13 for disposal information.

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**ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Use personal protective equipment.  
Keep from contacting skin or eyes.  
Avoid breathing vapors, mist or gas.  
Eliminate sources of ignition.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

**Environmental Precautions:**

Prevent further release (leakage/spillage) if safe to do so.  
Do not allow product to enter drains.  
Do not allow to drain to environment.  
Notify authorities if product enters sewers or public waters.

**Methods and Materials for Containments and Cleaning Up:**

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).  
Place contaminated material into suitable, closed containers for disposal.  
Dispose of contaminated material according to Section 13.  
After spillage has been collected, area may be flushed with water or wet-brushed.  
Ensure adequate ventilation.

**Reference to Other Sections:**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on proper disposal.

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**HANDLING AND STORAGE**

**Handling Precautions:** Avoid breathing vapors or mist.



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Avoid contact with eyes, skin, or clothing.  
Keep containers closed when not in use.  
Do not expose containers to open flame, excessive heat, or direct sunlight.  
Keep away from sources of ignition.  
Take care to avoid static discharge while handling this material.  
Use only non-sparking tools.  
Do not smoke, eat or drink when using this product.  
Do not puncture or drop containers.  
Handle with care and avoid spillage on the floor.  
Keep material out of reach of children.  
Keep material away from incompatible materials.  
Wash thoroughly after handling.  
Ensure adequate ventilation.

**Storage Requirements:** Keep container tightly closed.  
Do not store in direct sunlight.  
Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, Acid Anhydrides, Halogenated compounds and reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.).

### 8

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

**Personal Protective Equip:** Eye/face protection:  
When using material use safety glasses, gloves and apron according to HMIS PP, C. Use of a vapor respirator according to HMIS PP, U is also highly recommended when working with concentrated material in poorly ventilated spaces. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:  
Handle with gloves made from PVC, Neoprene, Nitrile or Buna rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:  
Chemically resistant safety glasses, gloves and apron are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:  
Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.

Control of environmental exposure:  
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

### Components with workplace control parameters:

Component: Isopropyl Alcohol



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CAS-No: 67-63-0  
USA ACGIH (TWA/TLV): 200 ppm  
USA ACGIH (STEL): 400 ppm  
USA OSHA Table Z-1 Limits for Air Contaminants 1910.1000 (STEL): 500 ppm  
USA OSHA Table Z-1 Limits for Air Contaminants 1910.1000 (TWA): 400 ppm  
USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (TWA): 400 ppm  
USA NIOSH Recommended Exposure Limits (TWA): 400 ppm  
USA NIOSH Recommended Exposure Limits (ST): 500 ppm

#### Biological occupational exposure limits:

Component: Isopropyl Alcohol  
CAS-No: 67-63-0  
Parameters: Acetone  
Biological Specimen: Urine  
USA ACGIH Biological Exposure Indices: 40 mg/L

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, colorless to straw colored liquid	<b>Odor:</b>	Organic
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	MIXTURE
<b>Odor Threshold:</b>	Not determined	<b>Solubility:</b>	100%
<b>Particle Size:</b>	Not determined	<b>Softening Point:</b>	Not determined
<b>Spec Grav./Density:</b>	0.950 g/ml (7.93 lbs/gal)	<b>Percent Volatile:</b>	50.0%
<b>Viscosity:</b>	(Cst @ 25 °C): 75	<b>Heat Value:</b>	Not determined
<b>Sat. Vap. Conc.:</b>	Not determined	<b>Freezing/Melting Pt.:</b>	Not determined
<b>Boiling Point:</b>	Not determined	<b>Flash Point:</b>	48.8 °C (120.0 °C)
<b>Flammability:</b>	(solid, gas): Combustible Liquid Class	<b>Octanol:</b>	Not determined
<b>Partition Coefficient:</b>	Not determined	<b>Vapor Density:</b>	(air = 1): Not determined
<b>Vapor Pressure:</b>	(mm Hg @ 25 °C): 24	<b>VOC:</b>	95 g/l
<b>pH:</b>	@ 10%: 6.0 - 9.0	<b>Bulk Density:</b>	Not determined
<b>Evap. Rate:</b>	(N-Butyl Acetate = 1): Not determined	<b>Auto-Ignition Temp:</b>	Not determined
<b>Molecular weight:</b>	MIXTURE	<b>UFL/LFL:</b>	Not determined
<b>Decomp Temp:</b>	Not determined		

## 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	Incompatibilities, flames, ignition sources.
<b>Materials to Avoid:</b>	Strong acids, strong bases, strong oxidizing agents, strong reducing agents, Acid Anhydrides, Halogenated compounds and reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.).
<b>Hazardous Decomposition:</b>	Ammonia, Carbon Oxides, Hydrochloric acid gas, Nitrogen Oxides (NOx) and Sodium Oxides.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11 TOXICOLOGICAL INFORMATION

**Component(s):** Trade Secret; Isopropyl Alcohol  
**CAS No(s):** N/A; 67-63-0

**Acute Toxicity:**





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LD50 Oral - Rat: 760 mg/kg  
LD50 Dermal - Rabbit: > 1,780 mg/kg  
LC50 Inhalation - Rat: 16,000 ppm (8 h)

**Skin Corrosion/Irritation:** Severe irritant.

**Serious Eye Damage/Eye Irritation:** Corrosive.

**Respiratory or Skin Sensitation:** No data available.

**Germ Cell Mutagenicity:** No data available.

**Carcinogenicity:** This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or OSHA classification (Isopropyl Alcohol).

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Isopropyl Alcohol).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** Inhalation - May cause drowsiness or dizziness.

**Specific Target Organ Toxicity - Single Exposure:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure:** No data available.

**Aspiration Hazard:** No data available.

**Additional Information:**

Component: Isopropyl Alcohol; RTECS: NT8050000

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**ECOLOGICAL INFORMATION**

**Component(s):** Trade Secret; Isopropyl Alcohol

**CAS No(s):** N/A; 67-63-0

**Toxicity:**

*Toxicity to fish:*

LC50 - Pimephales promelas (Fathead Minnow): 9,640 mg/l (96 h)

*Toxicity to daphnia and other aquatic invertebrates:*

EC50 - Daphnia magna (Water Flea): 5,102 mg/l (24 h)

Immobilization EC50 - Daphnia magna (Water Flea): 6,851 mg/l (24 h)

*Toxicity to daphnia and other aquatic invertebrates:*

EC50 - Desmodesmus subspicatus (Green Algae): > 2,000 mg/l (72 h)

EC50 - Algae: >1,000 mg/l (24 h)

**Persistence and Degradability:**

Readily biodegradable.



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**Bioaccumulative potential:**

No data available.

**Mobility in Soil:**

No data available.

**Results of PBT and vPvB assessment:**

Not required/conducted.

**Other Adverse Effects:**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

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### DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Contaminated Packaging: Dispose of as unused product.





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#### TRANSPORT INFORMATION

UN #: UN 2920, Class: 8 (3), Proper Shipping Name: Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compounds, Isopropanol)

#### DOT (US)

UN Number: 2920

Class: 8 (3)

Packing Group: II

ERG #: 132

Proper Shipping Name: Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compounds, Isopropanol)

Marine Pollutant: No

Poison Inhalation Hazard(s): No

#### IMDG

UN Number: 2920

Class: 8 (3)

Packing Group: II

EMS-No: F-E, S-C

Proper Shipping Name: Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compounds, Isopropanol)

Marine Pollutant: No

#### IATA

UN Number: 2920

Class: 8 (3)

Packing Group: II

ERG #: 132

Proper Shipping Name: Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compounds, Isopropanol)

Marine Pollutant: No





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### REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

-----  
\*Trade Secret (N/A 49.8%) TSCA

\*Isopropyl alcohol (67630 5-10%) MASS, NJHS, NRC, OSHAWAC, PA, SARA311/312, SARA313, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

-----  
MASS = MA Massachusetts Hazardous Substances List  
NJHS = NJ Right-to-Know Hazardous Substances  
NRC = Nationally Recognized Carcinogens  
OSHA WAC = OSHA Workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
SARA311/312 = SARA 311/312 Toxic Chemicals  
SARA313 = SARA 313 Title III Toxic Chemicals  
TSCA = Toxic Substances Control Act  
TXAIR = TX Air Contaminants with Health Effects Screening Level  
EPA FIFRA Pesticide Product Notice

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This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

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### OTHER INFORMATION

#### Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that BIO-DEX LABORATORIES, LLC. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of BIO-DEX LABORATORIES, LLC's control, BIO-DEX LABORATORIES, LLC. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

#### Preparation Information:

GHS Conversion Services  
www.ghsconversionservices.com  
(414) 336-2546