



# Safety Data Sheet (SDS)

BIO-DEX LABORATORIES, LLC

## Quick N' Thick Tile Cleaner

SDS Number: 227

Revision Date: 5/8/2015

Page 1 of 9

### 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:** Quick N' Thick Tile Cleaner  
**Revision Date:** 5/8/2015  
**Version:** 1.00  
**SDS Number:** 227  
**CAS Number:** MIXTURE  
**Chemical Family:** Inorganic Acid Solution  
**Chemical Formula:** \*\*\* PROPRIETARY \*\*\*  
**Synonyms:** Swimming Pool Tile Cleaner  
**Product Use:** Swimming Pool Tile Cleaner  
**Emergency Phone:** (800) 424-9300 (CHEMTREC)

### 2 HAZARDS IDENTIFICATION

NFPA:  
HMIS III:

Health = 2, Fire = 0, Reactivity = 0  
H2/F0/PH0



HMIS III	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARDS	0
PERSONAL PROTECTION C   Safety Glasses, Gloves, Apron	

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							
t		U		W		Y		Z		r		S	
Additional information													

GHS Signal Word:  
DANGER

GHS Hazard Pictograms:





## Quick N' Thick Tile Cleaner

SDS Number: 227

Revision Date: 5/8/2015

Page 2 of 9

**GHS Classifications:**

- Physical, Corrosive to Metals, 1
- Health, Acute toxicity, 4 Oral
- Health, Skin corrosion/irritation, 2
- Health, Serious Eye Damage/Eye Irritation, 1

**GHS Phrases:**

- H290 - May be corrosive to metals
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H318 - Causes serious eye damage

**GHS Precautionary Statements:**

- P234 - Keep only in original container.
- 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.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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).
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P403+233 - Store in a well ventilated place. Keep container tightly closed.
- 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	>92%	Proprietary, non-hazardous, non-regulated
7647-01-0	<5%	Hydrochloric acid
7664-38-2	<3%	Phosphoric acid

### 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:** Take off contaminated clothing and shoes immediately. Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.
- 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. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Get immediate medical attention.



**Quick N' Thick Tile Cleaner**

SDS Number: 227

Revision Date: 5/8/2015

Page 3 of 9

**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**

<b>Flammability:</b>	Not flammable
<b>Flash Point:</b>	DNA
<b>Flash Point Method:</b>	DNA
<b>Burning Rate:</b>	No data available
<b>Autoignition Temp:</b>	No data available
<b>LEL:</b>	No data available
<b>UEL:</b>	No data available

**Extinguishing Media:**

Water Spray  
Water Fog  
Carbon Dioxide  
Alcohol-Resistant Foam  
Dry Chemical

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

Carbon Oxides  
Hydrochloric Acid gas  
Nitrogen Oxides (NOx)  
Phosphorous 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.  
Product gives off Hydrogen by reaction with metals. Hydrogen is flammable and potentially explosive. Use caution.  
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.



**Quick N' Thick Tile Cleaner**

SDS Number: 227

Revision Date: 5/8/2015

Page 4 of 9

**6 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.  
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.

**Methods and materials for containments and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).  
Neutralizing agent like Sodium Bicarbonate may also be used to absorb/neutralize any spilled material.  
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:**

Comply with federal, state and local regulations on reporting spills.  
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.

**7 HANDLING AND STORAGE**

**Handling Precautions:**

Avoid breathing vapors or mist.  
Avoid contact with eyes, skin, or clothing.  
Use approved, original containers only.  
Do not use corrosive-sensitive materials such as mild steel, aluminum and 304 stainless steel for handling product.  
Keep containers closed when not in use.  
Do not expose containers to open flame, excessive heat, or direct sunlight.  
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.  
Avoid inhalation of vapors or mist upon opening container.  
Store in a well-ventilated place.  
Do not store in direct sunlight.  
Store away from strong bases, Alcohols, Amines, Aldehydes, Cyanides, Mercaptans, Sulfides, Sulfites, powdered metals, reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.), mild steel, Fluorine, metal Acetylides, Alkali metals and Hexalithium Disilicide.



## Quick N' Thick Tile Cleaner

SDS Number: 227

Revision Date: 5/8/2015

Page 5 of 9

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:** HMIS PP, C | Safety Glasses, Gloves, Apron  
Eye/face protection:  
When using material use safety glasses, gloves and apron according to HMIS PP, C. 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(s): Hydrochloric acid ; Phosphoric acid

CAS No(s): 7647-01-0; 7664-38-2

USA ACGIH (TWA/TLV): 1.0 mg/m<sup>3</sup>

USA ACGIH (STEL/TLV): 3 mg/m<sup>3</sup>

USA ACGIH (C/TLV): 2.8 mg/m<sup>3</sup>

USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (TWA): 1 mg/m<sup>3</sup>

USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (C): 7 mg/m<sup>3</sup>

USA OSHA Table Z-1 Limits for Air Contaminants - 1910.1000 (TWA): 1 mg/m<sup>3</sup>

USA OSHA Table Z-1 Limits for Air Contaminants - 1910.1000 (STEL): 3 mg/m<sup>3</sup>

USA NIOSH Recommended Exposure Limits (TWA): 1 mg/m<sup>3</sup>

USA NIOSH Recommended Exposure Limits (ST): 3 mg/m<sup>3</sup>

USA NIOSH Recommended Exposure Limits (C/REL): 7 mg/m<sup>3</sup>

#### Biological occupational exposure limits:

Contains no substances with biological occupational exposure limits values.



**Quick N' Thick Tile Cleaner**

SDS Number: 227

Revision Date: 5/8/2015

Page 6 of 9

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, pink liquid	<b>Odor:</b>	Acrid
<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>	1.080 - 1.200 g/ml (9.01 - 10.01 lbs/gal)	<b>Percent Volatile:</b>	96.41%
<b>Viscosity:</b>	Not determined	<b>Heat Value:</b>	Not determined
<b>Sat. Vap. Conc.:</b>	Not determined	<b>Freezing/Melting Pt.:</b>	< 0.0 °C (32.0 °F)
<b>Boiling Point:</b>	100.0 °C (212.0 °F)	<b>Flash Point:</b>	DNA
<b>Flammability:</b>	(solid, gas): Not flammable	<b>Octanol:</b>	Not determined
<b>Partition Coefficient:</b>	Not determined	<b>Vapor Density:</b>	(air = 1): Not determined
<b>Vapor Pressure:</b>	(kPa @ 20 °C): Not determined	<b>VOC:</b>	DNA
<b>pH:</b>	@ 1%: < 1.0	<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 bases, Alcohols, Amines, Aldehydes, Cyanides, Mercaptans, Sulfides, Sulfites, powdered metals, reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.), mild steel, Fluorine, metal Acetylides, Alkali metals and Hexalithium Disilicide.
<b>Hazardous Decomposition:</b>	Carbon Oxides, Hydrochloric Acid gas, Nitrogen Oxides (NOx) and Phosphorous Oxides.
<b>Hazardous Polymerization:</b>	Will not occur.

**11 TOXICOLOGICAL INFORMATION**

**Component(s):** Hydrochloric Acid; Phosphoric acid  
**CAS No(s):** 7647-01-0; 7664-38-2

**Acute Toxicity:**  
LD50 Oral - Rat: 700 mg/kg  
LC50 Dermal - Rabbit: 2,740 mg/kg  
LC50 Inhalation - Rabbit: 1.689 mg/l (1 h)  
LC50 Inhalation - Rat: > 0.85 mg/l (1 h)

**Skin Corrosion/Irritation:** Rabbit skin - Causes burns.

**Serious Eye Damage/Eye Irritation:** Rabbit eyes - Corrosive to eyes.

**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 (Hydrochloric acid).



# Safety Data Sheet (SDS)

BIO-DEX LABORATORIES, LLC

## Quick N' Thick Tile Cleaner

SDS Number: 227

Revision Date: 5/8/2015

Page 7 of 9

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric Acid).  
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:** No data available.

**Specific Target Organ Toxicity - Single Exposure:** Respiratory system - Respiratory tract irritant (single exposure, category 3).

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

**Aspiration Hazard:** No data available.

**Additional Information:**

Component: Hydrochloric Acid; RTECS: MW4025000

Component: Phosphoric acid; RTECS: TB6300000

12

## ECOLOGICAL INFORMATION

**Component(s):** Hydrochloric Acid; Phosphoric acid

**CAS No(s):** 7647-01-0; 7664-38-2

**Toxicity:**

Toxicity to fish:

LC50 - Gambusia affinis (Mosquito Fish): 138 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water Flea): 270 mg/l (48 h)

Toxicity to bacteria:

EC50 - Activated sludge: 270 mg/l

**Persistence and Degradability:**

No data available.

**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. Concentrated spills may present environmental hazard due to low pH. May be harmful to aquatic life.



# Safety Data Sheet (SDS)

## BIO-DEX LABORATORIES, LLC

### Quick N' Thick Tile Cleaner

SDS Number: 227

Revision Date: 5/8/2015

Page 8 of 9

#### 13 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.

Contaminated Packaging: Dispose of as unused product.

#### 14 TRANSPORT INFORMATION

UN #: UN 3264, Class: 8, Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid, Phosphoric Acid)

##### DOT (US)

UN Number: 3264

Class: 8

Packing Group: II

ERG #: 154

Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid, Phosphoric Acid)

Marine Pollutant: No

Poison Inhalation Hazard(s): No

Reportable Quantity (RQ): > 5,000 lbs (as Phosphoric Acid)

##### IMDG

UN Number: 3264

Class: 8

Packing Group: II

EMS-No: F-A, S-B

Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid, Phosphoric Acid)

Marine Pollutant: No

##### IATA

UN Number: 3264

Class: 8

Packing Group: II

ERG #: 154

Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid, Phosphoric Acid)

Marine Pollutant: No







# Safety Data Sheet (SDS)

## BIO-DEX LABORATORIES, LLC

### Quick N' Thick Tile Cleaner

SDS Number: 227

Revision Date: 5/8/2015

Page 9 of 9

15

#### REGULATORY INFORMATION

##### COMPONENT / (CAS/PERC) / CODES

\*Hydrochloric acid (7647010 <5%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA311/312, SARA313, TSCA, TXAIR

\*Phosphoric acid (7664382 <3%) CERCLA, CSWHS, EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA311/312, SARA313, TSCA, TXAIR

##### REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance  
CSWHS = Clean Water Act Hazardous substances  
EHS302 = Extremely Hazardous Substance  
EPCRAWPC = EPCRA Water Priority Chemicals  
HAP = Hazardous Air Pollutants  
MASS = MA Massachusetts Hazardous Substances List  
NJEHS = NJ Extraordinarily Hazardous Substances  
NJHS = NJ Right-to-Know Hazardous Substances  
OSHAPSM = OSHA Chemicals Requiring process safety management  
OSHAWAC = 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

16

#### 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:

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