

PERSONAL PROTECTION INDEX

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Phosphate Remover Plus

SDS Number: 239

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

BIODEX LABORATORES, LLC 4212 W. INNOVATION DR. PHOENIX, AZ 85086

Contact:	BIODEX LABORATORES, LLC
Phone:	800-617-3477 // 623-582-2400
Web:	www.biodex.com

Product Name:	Phosphate Remover Plus
Revision Date:	5/9/2015
Version:	1
SDS Number:	239
CAS Number:	MIXTURE
Chemical Family:	Inorganic Salt Solution
Chemical Formula:	**PROPRIETARY*
Synonyms:	Phosphate Removal Solution
Product Use:	Removal of High Concentrations of Phosphates from Swimming Pool Water

Emergency Phone: (800) 424-9300 (CHEMTREC)

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HAZARDS IDENTIFICATION

NFPA: HMIS III:



GHS Signal Word:

WARNING

GHS Hazard Pictograms:





PERSONAL PROTECTION

B | Safety Glasses,

Gloves

Health = 2, Fire = 0, Reactivity = 0



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GHS Classifications:

- Health, Acute toxicity, 5 Oral
- Health, Skin corrosion/irritation, 2
- Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Phrases:

H303 - May be harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

GHS Precautionary Statements:

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.

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

P332+313 - If skin irritation occurs: Get medical advice/attention.

P337+313 - If eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P405 - Store locked up.

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

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas # | Percentage | Chemical Name N/A | 60% | Trade Secret* N/A | 40% | Proprietary, non-hazardous, non-regulated

*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.

4FIRST AID MEASURESInhalation: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. Remove
contact lenses is present and easy to do so. If eye irritation persists, obtain medical attention.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. If symptoms develop and/or persist, obtain 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:



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No data available.

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FIRE FIGHTING MEASURES

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

Extinguishing Media:

Water Spray Carbon Dioxide Alcohol-Resistant Foam Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Hydrogen Chloride gas Lanthanum 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.

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. 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). Place contaminated material into suitable, closed containers for disposal. Dispose of contaminated material according to Section 13.



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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. 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. 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 above freezing point. Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, metals.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Personal Protective Equip:	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. Eye/face protection: When using material use safety goggles and gloves according to HMIS PP, B. 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 Neoprene, Nitrile, PVC or Buma 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 gloves and safety goggles 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.



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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:

Contains no substances with occupational exposure limits values.

Biological occupational exposure limits:

Contains no substances with biological occupational exposure limits values.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless to light yellow liquid		
Physical State:	Liquid	Odor:	Characteristic
Odor Threshold:	Not determined	Molecular Formula:	MIXTURE
Particle Size:	Not determined	Solubility:	100%
Spec Grav./Density:	1.520 - 1.580 g/ml (12.69 - 13.19 lbs/ga	Softening Point:	Not determined
Viscosity:	Not determined	Percent Volatile:	40%
Sat. Vap. Conc.:	Not determined	Heat Value:	Not determined
Boiling Point:	> 100.0 °C (212.0 °F)	Freezing/Melting Pt.:	< 0.0 °C (32.0 °F)
Flammability:	(solid, gas): Not flammable	Flash Point:	DNA
Partition Coefficient:	Not determined	Octanol:	Not determined
Vapor Pressure:	(mm Hg @ 20 °C): Not determined	Vapor Density:	(air = 1): Not determined
pH:	@ 100%: 1.0 - 3.0	VOC:	DNA
Evap. Rate:	(N-Butyl Acetate = 1): Not determined	Bulk Density:	Not determined
Molecular weight:	MIXTURE	Auto-Ignition Temp:	Not determined
Decomp Temp:	Not determined	UFL/LFL:	Not determined

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STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Incompatibilities, flames, ignition sources.
Materials to Avoid:	Strong acids, strong bases, strong oxidizing agents, strong reducing agents, metals.
Hazardous Decomposition:	Hydrogen Chloride gas and Lanthanum Oxides.
Hazardous Polymerization:	Will not occur.



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TOXICOLOGICAL INFORMATION

Component(s): Trade Secret CAS No(s): N/A

Acute Toxicity:

LD50 Oral - Rat: 4,184 mg/kg LD50 Intraperitoneal - Rat: 106 mg/kg LD50 Intraperitoneal - Mouse: 121 mg/kg LD50 Intraperitoneal - Guinea Pig: 129 mg/kg LD50 Subcutaneous - Mouse: 2,424 mg/kg LD50 Intravenous - Mouse: 18 mg/kg LD50 Intravenous - Rabbit: 148 mg/kg

Skin Corrosion/Irritation: Causes irritation.

Serious Eye Damage/Eye Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitation: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity:

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

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 - May cause respiratory irritation.

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

Aspiration Hazard: No data available.

Additional Information: No data available.



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ECOLOGICAL INFORMATION

Component(s): Trade Secret CAS No(s): N/A

Toxicity:

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

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. Harmful 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.

Contaminated Packaging: Dispose of as unused product.

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TRANSPORT INFORMATION

DOT (US) Non-regulated material, liquid

IMDG

Non-regulated material, liquid

IATA

Non-regulated material, liquid



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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Trade Secret (N/A 60%) NJHS, PA, SARA311/312, TSCA

REGULATORY KEY DESCRIPTIONS

NJHS = NJ Right-to-Know Hazardous Substances PA = PA Right-To-Know List of Hazardous Substances SARA311/312 = SARA 311/312 Toxic Chemicals TSCA = Toxic Substances Control ActMASS = MA Massachusetts Hazardous Substances List

OTHER INFORMATION

Disclaimer:

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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.

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