

Oil Out Enzyme

SDS Number: 229 Revision Date: 5/8/2015

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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: Oil Out Enzyme

Revision Date: 5/8/2015
Version: 1.00
SDS Number: 229
CAS Number: MIXTURE
Chemical Family: Enzyme

Chemical Formula: *** PROPRIETARY ***

Synonyms: Oil Removal Enzyme Solution

Product Use: Biodegradable Enzyme Solution for Commercial Pools

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

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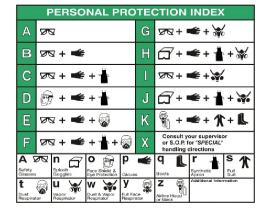
HAZARDS IDENTIFICATION

NFPA: HMIS III:



Health = 1, Fire = 0, Reactivity = 0 H1/F0/PH0





GHS Signal Word: WARNING

GHS Hazard Pictograms:





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GHS Classifications:

Health, Skin corrosion/irritation, 2

Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Phrases:

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.

P302+352 - IF ON SKIN: Wash with soap and water.

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.

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

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Cas # | Percentage | Chemical Name

N/A | 100% Proprietary, non-hazardous, non-regulated

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.

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:

No data available.



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FIRE FIGHTING MEASURES

Flammability: Not flammable

Flash Point: DNA Flash Point Method: DNA

Burning Rate:

Autoignition Temp:

LEL:

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

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.

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.



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See Section 8 for information on personal protection equipment.

See Section 13 for information on proper disposal.

7 HANDLING AND STORAGE

Handling Precautions: 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 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 and strong reducing

agents.

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 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 PVC, Neoprene, Nitrile 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 safety glasses and gloves 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:



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Contains no substances with occupational exposure limit values.

Biological occupational exposure limits:

Contains no substances with biological occupational exposure limit values.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Translucent, amber liquid

Physical State:LiquidOdor:MildOdor Threshold:Not determinedMolecular Formula:MIXTUREParticle Size:Not determinedSolubility:100%

Spec Grav./Density:1.006 - 1.019 g/ml (8.40 - 8.50 lbs/gal)Softening Point:Not determinedViscosity:Not determinedPercent Volatile:Not determinedSat. Vap. Conc.:Not determinedHeat Value:Not determinedBoiling Point:> 100 °C (212 °F)Freezing/Melting Pt.:< 0 °C (32 °F)</td>

Flammability: (solid, gas): Not flammable Flash Point: DNA

Partition Coefficient: Not determined Octanol: Not determined

Vapor Pressure: (mm Hg @ 25 °C): < 0.01 **Vapor Density:** (air = 1): Same as water

pH: @ 100%: 3.8 - 4.2 **VOC:** DNA

Evap. Rate:(N-Butyl Acetate = 1): < 0.01</th>Bulk Density:Not determinedMolecular weight:MIXTUREAuto-Ignition Temp:Not determinedDecomp Temp:Not determinedUFL/LFL:Not determined

10 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 and strong reducing agents.

Hazardous Decomposition: Carbon Oxides. **Hazardous Polymerization:** Will not occur.

11 TOXICOLOGICAL INFORMATION

Component(s): Oil Out Enzyme

CAS No(s): N/A

Acute Toxicity: No data available.

Skin Corrosion/Irritation: Causes mild skin irritation.

Serious Eye Damage/Eye Irritation: Causes severe 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



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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: No data available.

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): Oil Out Enzyme

CAS No(s): N/A

Toxicity:

Toxicity to fish:

LC50 - Pimephales promelas (Fathead Minnow): 83.5 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia pulex (Water Flea): 49 mg/l (48 h)

Persistence and Degradability:

Readily biodegradable.

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.



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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

Proprietary, non-hazardous, non-regulated (N/A 100%) None - Reporting not required

REGULATORY KEY DESCRIPTIONS

None - Not applicable

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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