

ENZYME DETERGENT™ SAFETY DATA SHEET

for **POROUS PAVEMENTS** DATE: 11/2024

SECTION ONE – PRODUCT IDENTIFICATION

PRODUCT NAME: BioSpan Enzyme Detergent for Porous Pavement

DESCRIPTION: Non-toxic, environmentally friendly cleaner and biocatalyst

SYNONYMS: Neutral pH Detergent, Enzyme Blend

SDS Enzyme Detergent #01

GENERAL PRODUCT USE: Detergent Biocatalyst used for organic matter removal

APPEARANCE AND ODOR: Yellow to dark brown liquid

SUPPLIERS NAME: BIOSPAN TECHNOLOGIES, INC.

6540 MEYER DRIVE, WASHINGTON, MISSOURI 63090

SUPPLIERS PHONE NUMBER: (636) 583-7974

TRANSPORTATION EMERGENCY PHONE NUMBER: CHEMTEC NUMBER (800) 262-8200

S.A.R.A. INFORMATION

HAZARDS: FIRE: YES PRESSURE: NO REACTIVITY: NO ACUTE: NO CHRONIC: NO

PHYSICAL DATA: MIXTURE: YES PURE: NO SOLID: NO LIQUID: YES GAS: NO

SECTION TWO – HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): Respiratory sensitization (Category 1) H334.

GHS label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazards Statements:

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H319: Causes serious eye irritation

H315: May cause skin irritation

H355: May cause respiratory irritation

Precautionary statements:

BioSpan Technologies, Inc.
6540 Meyer Drive Washington, Missouri 63090
Tel (636) 583-7974 Fax (636) 583-1773
P.O Box 4222 Ballwin, MO 63022

P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P285: In case of inadequate ventilation, wear respiratory protection
P304/341: If inhaled, breathing difficult, remove victim to fresh ventilation and keep at rest for comfortable breathing
P342/311: If experiencing respiratory symptoms, call poison center or doctor
P501: Dispose of contents according to local regulations.

SECTION THREE – COMPOSTION / INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME:</u>	<u>APPROXIMATE WEIGHT %</u>
N / A	NONE

ALL MATERIALS ARE CLASSIFIED NON-TOXIC

SECTION FOUR – FIRST AID MEASURES

PRIMARY ROUTES OF ENTRY	SKIN CONTACT X INHALATION X	EYE CONTACT X INGESTION
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EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush eyes with large amounts of running water for at least 15 minutes. If irritation persists, contact a doctor.
Skin: Wash with large amounts of running water, and soap. Remove contaminated clothing and wash before wearing again.
Ingestion: If swallowed, immediately drink milk or water and contact a doctor immediately.
Inhalation: Remove from area to fresh air.
ODOR THRESHOLDS: None

HEALTH HAZARDS (ACUTE AND CHRONIC): SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eyes -irritation from direct contact. Prolonged contact with membranes of mouth, esophagus & stomach may cause irritation and dermatitis due to defatting of the skin. Inhalation - May cause respiratory irritation and coughing. Ingestion -Harmful if swallowed.

CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders may be more susceptible to irritating effects. Persons with pre-existing lung disorders may be more susceptible to irritating effects.

CARCINOGENICITY: None

SECTION FIVE – FIREFIGHTING MEASURES

REACTIVITY WITH WATER: NONE
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE
AUTO IGNITION TEMPERATURE: NONE
UPPER EXPLOSION LIMIT (%): NOT KNOWN
SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF CONTAINED BREATHING APPARATUS, AND COMPLETE PROTECTIVE CLOTHING

SECTION SIX – ACCIDENTAL RELEASE MEASURES

STABILITY: STABLE X UNSTABLE	CONDITIONS TO AVOID: Avoid heat, open flame
SENSITIVITY TO STATIC DISCHARGE: None	REACTIVITY WITH WATER: None
REACTION DECOMPOSITION PRODUCTS: None	

<u>HAZARDOUS POLYMERIZATION</u>	<u>CONDITIONS TO AVOID</u>
MAY OCCUR	WILL NOT OCCUR X strong alkalis and oxidizing agents

SECTION SEVEN – HANDLING AND STORAGE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Floors may become slippery. Use protective equipment stated in Section Eight. Contain liquid spills using a barrier of inert material such as sand or by diking the area. Absorb spilled liquids using inert material. Scoop or shovel absorbed material or spilled solids into containers. Avoid creating a dust during transfer of solids. Wash area with soap and water.

WASTE DISPOSAL METHODS: Incinerate, bury in an approved manner or dispose of in accordance with pertinent federal, state, or local regulations.

SECTION EIGHT – EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT: Goggles, impervious or chemical resistant gloves, and impervious clothing to prevent skin contact.

RESPIRATORY PROTECTION: In well-ventilated areas protection is not normally required
Other Protective Equipment: eye wash station and safety shower should be easily accessible.

VENTILATION TYPE: Typical mechanical or general industrial systems are sufficient for simple mixing.

SECTION NINE – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Color: Yellowish to dark brown

Odor threshold, pH, Melting point/Freezing point, Initial boiling point/ boiling point range, Flash point, Evaporation rate, Flammability (Solid, Gas), Upper/Lower flammability or explosive limits, Vapor pressure, Vapor density, Water solubility, Partition coefficient, Auto ignition temperature, Decomposition temperature, Viscosity, Explosive properties, Oxidizing properties: Data not relevant

SECTION TEN – STABILITY AND REACTIVITY

Conditions to avoid: Excessive temperatures may cause decomposition or oxidation
Materials to Avoid: Avoid contact with strong acids, strong bases and oxidizing agents. May react violently with iodine pentafluoroethylene
Decomposition Products: CO₂ and water

SECTION ELEVEN – TOXICOLOGICAL INFORMATION

Target organs: Eyes and skin
Route of entry: Eye and skin contact
Chronic toxicity No known chronic indications

SECTION TWELVE – ECOLOGICAL INFORMATION

Biodegradability: biodegradable
Aquatic toxicity: Marine pollutant. The formulations are immiscible in water. The formulations are known to evaporate quickly and biodegrade and should not cause long-term effects.
Bioaccumulation Potential: Not determined. All materials used in formulations are known to be non-accumulating in the environment.

SECTION THIRTEEN – DISPOSAL CONSIDERATIONS

RCRA hazardous waste– Classified as a RCRA hazardous waste— (Flammability characteristics only)
Disposal methods: Dispose of this material by either incineration or by a licensed waste disposal company. Contaminated absorbent material may be disposed of in an approved landfill. Follow all local, state and Federal disposal regulations.

SECTION FOURTEEN – TRANSPORT INFORMATION

DOT: Proper shipping name:

Formulated solution containing: Fatty acid esters, Identification Number 144920, UN hazard class N/a< Terpene hydrocarbons, n.o.s., 3, UN 2319, PGIII, Exemptions: chemicals, n.o.l. (NON-REGULATED)- allowable for shipment in non-bulk containers: IATA: terpene hydrocarbons, n.o.s., UN2319, PGIII

SECTION FIFTEEN – REGULATORY INFORMATION

OSHA: This product is slightly hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200: However, thermal decomposition fumes from this product may be hazardous under sections 2 and 3.

CERLA-SARA: Ingredients present in products that may require reporting under Section 312 of SARA title III as defined in 40 CFR 372:

EXTREMELY HAZARDOUS SUBSTANCES: NONE
TOXIC CHEMICALS: NONE

CLEAN AIR ACT, OZONE DEPLETING SUBSTANCES:

This product does not contain, nor was it manufactured with Class I or Class II ozone depleting substances as defined by the Clean Air Act Amendments of 1990.

SECTION SIXTEEN – OTHER INFORMATION

Hazardous ratings (0=minimal, 1=slight, 2=moderate, 3= serious, 4= severe)

HMIS RATINGS:

Health = 1, Flammability = 1 Reactivity = 0 Personal Protective Equipment = G, eye protection

NFPA:

Health =1, Flammability=1, reactivity=0

EXPOSURE LIMITS: (N.E. = None Established)

*The above information provided refers to the enzyme concentrate product. The solution applied is a blend that is safe and may be disposed of in sanitary drains and sewers.

The information stated in Section 2 is believed to be correct but does not purport to be ALL inclusive and shall be used only as a guide for the independent verification of the user. The Information in this document is based on the present state of our knowledge and is applicable to the product, with regard to appropriate safety precautions. It does not represent a guaranty or warranty. Certain guidelines above may be broader than actually required in order to ensure all material is handled with the utmost care. The company and its affiliates assume no liability for any damage resulting from handling or contact with the above product. See the company's confirmation of purchase order for additional terms and conditions of sale.

PREPARED BY: BioSpan Technologies, Inc.
11/2024