

**RePLAY**<sup>®</sup>  
**AGRICULTURAL OIL SEAL  
& PRESERVATION AGENT****SAFETY DATA SHEET**

DATE: 11/2024

**SECTION ONE – PRODUCT IDENTIFICATION**

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PRODUCT NAME: BioSpan RePlay Agricultural Oil seal and Asphalt Pavement Preservation Agent<sup>®</sup>

DESCRIPTION: Non-toxic, environmentally friendly asphalt pavement penetrating seal and preservation agent

SYNONYMS: Asphalt Reducing Agent

SDS RePlay #01

GENERAL PRODUCT USE: Used to seal and preserve existing asphalt road surfaces

APPEARANCE AND ODOR: Brown to black thin liquid, slight citrus or floral fragrance

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**

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NONE

**SECTION THREE – COMPOSTION / INFORMATION ON INGREDIENTS**

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

ALL MATERIALS ARE CLASSIFIED NON-TOXIC

## SECTION FOUR – FIRST AID MEASURES

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PRIMARY ROUTES OF ENTRY

SKIN CONTACT X  
INHALATION XEYE CONTACT X  
INGESTION**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

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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

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STABILITY: STABLE X  
UNSTABLE

CONDITIONS TO AVOID: Avoid heat, open flame

SENSITIVITY TO STATIC DISCHARGE: None

REACTIVITY WITH WATER: None

REACTION DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATIONMAY WILL NOT  
OCCUR OCCUR XCONDITIONS TO AVOID

strong alkalis and oxidizing agents

## SECTION SEVEN – HANDLING AND STORAGE

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**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.

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## SECTION EIGHT – EXPOSURE CONTROLS / PERSONAL PROTECTION

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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.

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## SECTION NINE – PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT: 310° – 330° F

VAPOR DENSITY: LIQUID

PERCENT VOLATILE (BY WEIGHT): N / A

VAPOR PRESSURE: 0.91 MM @ 20° C

SOLUBILITY IN WATER: Immiscible

SPECIFIC GRAVITY: 0.8820-0.8860 (H<sub>2</sub>O = 1.0)

AUTO IGNITION TEMPERATURE: N / A

pH: 3.5 – 5.0

FLASH POINT: 210° F+ TAG CLOSED CUP

LOWER EXPLOSION LIMIT %: NOT KNOWN

UPPER EXPLOSION LIMIT: NOT KNOWN

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL

OR UNIVERSAL – TYPE FOAM THERMAL DECOMPOSITION

PRODUCTS: BURNING OF MATERIAL MAY RELEASE CARBON DIOXIDE, CARBON MONOXIDE

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## SECTION TEN – STABILITY AND REACTIVITY

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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: CO<sub>2</sub> and water

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## SECTION ELEVEN – TOXICOLOGICAL INFORMATION

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Target organs: Eyes and skin

Route of entry: Eye and skin contact

Acute toxicity LPR-Mus TD<sub>LD</sub> <10,000 mg/kg/8W-1:ETA.

Chronic toxicity No known chronic indications

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## SECTION TWELVE – ECOLOGICAL INFORMATION

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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.

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## SECTION THIRTEEN – DISPOSAL CONSIDERATIONS

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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

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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

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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

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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)

PREPARED BY: BioSpan Technologies, Inc.  
11/2024