



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BIO-SAVE® 11LP

PRODUCT TYPE: Water dispersible powder.

PRODUCT CHARACTERISTICS: Off-white to tan powder, strong bread-like odor.

US EPA REG. NO: 81803-1

MANUFACTURER: JET Harvest Solutions

ADDRESS: JET Harvest Solutions
P.O. Box 915139
Longwood, FL 32791-5139 USA

PHONE: 877-866-5773

EMERGENCY PHONE: **INFOTRAC CHEMICAL RESPONSE SYSTEM
US AND CANADA 1-800-535-5053 (24 HOURS)
INTERNATIONAL 1-352-323-3500 (24 HOURS)**

PRODUCT USE: A post-harvest fungal disease control for raw agricultural commodities
Use only as directed on the product label.

SECTION 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Not classified by OSHA

EPA SIGNAL WORD: Caution (refer to Section 15)

HAZARD STATEMENTS: None

PICTOGRAM: None

PRECAUTIONARY STATEMENTS: Contact with eyes may cause mild/reversible eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

POTENTIAL ROUTES OF ENTRY: Skin: Non-irritating to the skin.
Ingestion: This material is not harmful if swallowed.

CARCINOGENICITY: Not listed as a carcinogen by NTP, OSHA or IARC.

CHRONIC EFFECTS: None.

MEDICAL CONDITIONS
GENERALLY AGGRAVATED
BY EXPOSURE: None known for this product.

PHYSICAL STATE: Powder

SAFETY DATA SHEET



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

ACTIVE INGREDIENT:	<i>Pseudomonas syringae</i> , strain ESC-11	% / weight: 30
INERT INGREDIENTS:	Proprietary, non-reactive	% / weight: 70
CAS NO:	68583-32-4	

SECTION 4: FIRST AID MEASURES

INHALATION: Remove to fresh air if discomfort or difficulty in breathing is experienced. Obtain medical attention if condition persists.

EYES: Flush immediately with plenty of water for 15 minutes or until irritation subsides. If irritation develops or persists, seek medical attention.

SKIN: Wash with soap and water after handling. Remove any contaminated clothing.

INGESTION: Seek medical attention if discomfort is experienced.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: Not applicable.

EXTINGUISHING MEDIA: This material is non-combustible. Use extinguishing media such as foam, dry chemicals, water, or carbon dioxide appropriate to the surrounding fire.

FIRE FIGHTING INSTRUCTIONS: Wear full fire fighting turn out gear (Bunker gear) and self-contained, positive pressure breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Contain spill. Soak up with absorbent material. Shovel into waste container and cover for disposal. Disposal of material should be in accordance with Federal, state and local environmental control regulations (see Section 13).

SECTION 7: HANDLING AND STORAGE

HANDLING: Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes and clothing. Practice good housekeeping.

STORAGE: Store in original packaging. Store at 4°C refrigerated temperature for short-term (6 months) product shelf life stability. Shelf life of product will degrade after 6 months at 4°C. Store at -70°C, for long term product stability.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: This mixture does not have established exposure limits.

EYE PROTECTION: Wear goggles or safety glasses with side shields when mixing or loading.

SKIN PROTECTION: Wear insulated gloves when handling frozen materials.

ENGINEERING CONTROLS: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs and ACGIH TLVs. Good general ventilation should be sufficient for most conditions. Local exhaust is preferred.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Off-white to tan powder
ODOR:	Bread like
PHYSICAL STATE:	Powder
PH:	7.0
VAPOR PRESSURE:	Not applicable
VAPOR DENSITY:	Not applicable
BOILING POINT:	Not applicable
MELTING POINT:	Not determined for mixture
SOLUBILITY IN WATER:	Insoluble
SPECIFIC GRAVITY (H ₂ O = 1):	Not determined for mixture
EVAPORATION RATE:	Not determined
FLAMMABILITY (SOLID. GAS):	Not determined
UPPER FLAMMABILITY LIMITS:	Not determined
LOWER FLAMMABILITY LIMITS:	Not determined
VAPOR PRESSURE:	Not determined
VAPOR DENSITY:	Not determined
RELATIVE DENSITY:	Not determined
SOLUBILITY IN OTHER SOLVENTS:	Not determined
PARTITION COEFFICIENT:	Not determined
AUTOIGNITION TEMPERATURE:	Not determined
DECOMPOSITION TEMPERATURE:	Not determined
KINEMATIC VISCOSITY:	Not determined
DYNAMIC VISCOSITY:	Not determined
EXPLOSIVE PROPERTIES:	Not determined
OXIDIZING PROPERTIES:	Not determined

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Material is considered stable under normal ambient and anticipated storage and handling conditions.
INCOMPATIBILITY:	None.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS: Oral LD₅₀ in rats is greater than 5000 mg/kg.

SKIN EFFECTS: No skin irritation was noted in a primary dermal irritation study in rabbits. No local or systemic

toxicity was noted in an acute dermal toxicity study in rabbits. The LD₅₀ for rabbits is greater than 5010 mg/kg.

ACUTE INHALATION EFFECTS: No information is available for the mixture. However, no mortality or irreversible signs of toxicity were produced by the active ingredient, *Pseudomonas syringae*, in an inhalation toxicity study in rats.

EYE EFFECTS: An eye irritation study in rabbits produced mild, reversible eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No information is available. *Pseudomonas syringae*, ESC 10, is not classified as a plant pathogen by USDA/APHIS.

CHEMICAL FATE INFORMATION: No information is available.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT: Not regulated. Not a DOT hazardous material.

IATA DGR: Not regulated

IMDG: Not regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Exempt

FIFRA: Regulated

CERCLA REPORTABLE QUANTITY: None

SARA Title III

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Non-hazardous

SECTION 313 TOXIC CHEMICALS: None

RCRA STATUS: None

STATE/COUNTRY INFORMATION: Not applicable

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD CLASSIFICATION: (Key: 0=Minimum, 1=Slight, 2=Moderate, 3=High/Serious, 4=Extreme/Severe)

Health - 0; Flammable - 0; Reactivity - 0

SECTION 16: OTHER INFORMATION

Key/Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS No.	Chemical Abstract Number
CERCLA	Comp. Environmental Response, Compensation and Liability Act
DOT	Department of Transportation
EPA	Environmental Protection Agency
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act
IARC	International Agency for Research on Cancer
mg/m ³	Milligrams per Cubic Meter
MSHA	Mine Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per Million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act

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