

SAFETY DATA SHEET

Revised 11-26-19

SECTION 1: IDENTIFICATION

PRODUCT NAME	BaciFlex®
RECOMMENDED USE	Direct-fed microbial for dairy cows. Contains live (viable) naturally occurring microorganisms.
MANUFACTURER	Papillon Agricultural Company
ADDRESS	129 N. West Street 2 nd Floor, Easton, Maryland 21601
CONTACT INFORMATION	Telephone: (800) 888-5688 Fax: (410) 822-0429
EMERGENCY PHONE NUMBER	(443) 496-1286

SECTION 2: HAZARD(S) IDENTIFICATION

CLASSIFICATION	Not a hazardous substance or mixture
SIGNAL WORD/ PRECAUTIONARY STATEMENT	Avoid inhalation of dusts
OTHER HAZARDS	Possible irritation of the skin (especially open wounds), eyes, and respiratory tract. Swallowing large amounts may cause irritation of the gastrointestinal tract. Contains no hazardous components as listed in 29 CFR 1900.1000 or other pertinent sections of OSHA regulations. Product is GRAS for human consumption 21CFR 184.1444

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS	Active ingredients- dried <i>Bacillus subtilis</i> fermentation product, dried <i>Bacillus lentus</i> fermentation extract. Inert carriers- calcium carbonate, sodium bentonite, processed grain by-products, maltodextrin, sodium silico aluminate, and mineral oil.
CONCENTRATION	Ingredient percentages (concentrations) have been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

FIRST AID MEASURES	In case of eye contact: Flush eyes with clean water for at least 15 minutes, get medical attention if irritation persists. In case of skin contact: Rinse with soap and water, get medical attention if symptoms occur. If swallowed: Rinse mouth, get medical attention if symptoms occur. If inhaled: Get medical attention if symptoms occur.
SYMPTOMS/ DELAYED EFFECTS	Not Applicable
SPECIAL TREATMENT	Not Applicable

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Use extinguishing measures that are appropriate to local circumstances and environment.
SPECIFIC HAZARDS	Not Applicable
FIRE-FIGHTER PRECAUTIONS	Use PPE for surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Respiratory mask/filter and eye goggles to protect from dust.
CLEAN-UP METHODS	Vacuum or sweep up any spilled product and place in a closed container.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS	Avoid contact with skin, eyes, and clothing. Do not breathe dust. Use adequate ventilation. Wash thoroughly after handling.
SAFE STORAGE CONDITIONS	Keep bags closed and store in a cool dry area for maximum stability.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA EXPOSURE LIMIT	Not Applicable
ENGINEERING CONTROLS	Not Applicable
PERSONAL PROTECTIVE EQUIPMENT	Basic respiratory mask/filter and eye goggles to protect from dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White crystalline powder	FLAMMABILITY LIMITS	Not Applicable
ODOR	None	VAPOR PRESSURE	Not Applicable
ODOR THRESHOLD	Not Applicable	VAPOR DENSITY	Not Applicable
pH	Not Applicable	RELATIVE DENSITY	Not Applicable
MELTING/ FREEZING POINT	Not Applicable	SOLUBILITY	Soluble
INITIAL BOILING POINT/ BOILING RANGE	Not Applicable	PARTITION COEFFICIENT: N-OCTANOL/ WATER	Not Applicable
FLASH POINT	Not Applicable	AUTO-IGNITION TEMP	Not Applicable
EVAPORATION RATE	Not Applicable	DECOMPOSITION TEMP	Not Applicable
FLAMMABILITY	Not Applicable	VISCOSITY	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not Applicable
CHEMICAL STABILITY	Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS	Polymerization will not occur
CONDITIONS TO AVOID	Premature contact with moisture may cause caking.
INCOMPATIBLE MATERIALS	Strong acids will degrade product.
HAZARDOUS DECOMPOSITION PRODUCTS	Not Applicable

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE ROUTES	Inhalation and eye contact; Dust may cause mild irritation to lungs and eyes
SYMPTOMS OF TOXICOLOGICAL EFFECTS	Information not available

DELAYED/ IMMEDIATE EFFECTS OF LONG/ SHORT EXPOSURE	Information not available
NUMERICAL MEASURES OF TOXICITY	Information not available
LISTED BY NTP/ IARC/ OSHA	All bacterial and inert components in this product are recognized as safe.
SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)	
ECOTOXICITY	This product has no known Eco-toxicological effects.
PERSISTENCE AND DEGRADABILITY	Information not available
BIOACCUMULATIVE POTENTIAL	Significant accumulation in organisms is not to be expected.
MOBILITY IN SOIL	Information not available
OTHER ADVERSE EFFECTS	Information not available
SECTION 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)	
TOXIC WASTE RESIDUE	Not Applicable
DISPOSAL OF CONTAMINATED PACKAGING	Diluted product can be flushed to sanitary sewer system. Dispose of in accordance with local, state, and federal regulations.
SECTION 14: TRANSPORT INFORMATION (NON-MANDATORY)	
UN NUMBER	Not Applicable
UN PROPER SHIPPING NAME	Not Applicable
TRANSPORT HAZARD CLASS	Not Applicable
PACKING GROUP	Not Applicable
ENVIRONMENTAL HAZARDS	Not Applicable
TRANSPORT IN BULK (ANNEX II OF MARPOL 73/78 & IBC CODE)	Not Applicable
SPECIAL PRECAUTIONS	The shipper/ consignor/ sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transportation.
SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)	
REGULATIONS	<p>SARA/TITLE III - List of extremely hazardous substances for emergency planning and notification (40 CFR 300 & 305): This product does not contain any ingredients listed as an extremely hazardous substance (EHS) for emergency planning under section 301-303 and for Emergency Release Notification under section 304.</p> <p>SARA/TITLE III - List of toxic chemicals subject to release reporting (community right to know) (40 CFR 372): This product does not contain any ingredients listed as a toxic chemical for Annual Release Reporting Requirements under section 313.</p>
SECTION 16: OTHER INFORMATION	
PREPARATION DATE	November 26,2019

Reasonable care has been taken in preparation of this Safety Data Sheet. However, the data provided herein is without warranty, express or implied, regarding its correctness or accuracy. Individual users should determine the suitability of the information for their particular purpose and assume responsibility for loss, injury, damage, or expense resulting from improper use of this product.