


SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION	
Trade Name:	BioPath® Microbial Inoculant	
Primary Use:	Microbial Inoculant to Encourage Nutrient Cycling and Root Development	
Company Information:	Corporate Headquarters	The Mosaic Company 101 East Kennedy Blvd, Ste 2500 Tampa, FL 33602
	US Guarantor	Mosaic Biosciences Headquarters 5 Lab Drive, Suite 3200 Durham, NC 27709 Production 111 E. Tever Street Plant City, FL 33563-2417
	Canada Guarantor	Mosaic Canada Crop Nutrition, LP 1700 – 2010 12th Ave. Regina, SK Canada S4P 0M3
	Contact Info	www.cropnutrition.com +1 (813) 718-7284 MBNAinfo@mosaicco.com
Emergency Telephone:	EMERGENCY OVERVIEW 24 Hour Emergency Telephone Number: For Chemical Emergencies: Spill, Leak, Fire or Accident Call CHEMTREC North America: (800) 424-9300 (reference CCN201871) Others: (703) 527-3887 (collect)	

SECTION 2	HAZARD IDENTIFICATION	
OSHA/HCS Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). See appropriate classifications below.	
GHS Classification:	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A	
	Signal Word: WARNING Hazard Statement(s) Causes skin irritation. Causes serious eye irritation.	
Label Elements:		
Prevention:	Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling.	
Response:	Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.	

SECTION 3	COMPOSITION INFORMATION ON INGREDIENTS		
Composition:	Component	CAS#	Percentage
	Bacillus licheniformis	n/a	<1%
	Bacillus methylotrophicus	n/a	<1%
	Bacillus subtilis	n/a	<1%
	Water Based Culture Medium	7732-18-5	99%

SECTION 4	FIRST AID MEASURES	
First Aid Procedures:	Eyes:	Move victim away from exposure and into fresh air. Flush eyes with plenty of clean water for at least 15 minutes. If symptoms persist, seek medical attention.
	Skin:	Wash contaminated area thoroughly with mild soap and water. If chemical or solution soaks through clothing, remove clothing and wash contaminated skin. If irritation develops and persists after washing, seek medical attention.
	Inhaled:	If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.
	Ingestion:	Rinse mouth thoroughly. If large amounts are swallowed, seek emergency medical attention.

SECTION 5	FIRE FIGHTING MEASURES
Extinguishing Media:	Product is not flammable. Use extinguishing agent suitable for type of surrounding fire.
Protection of Firefighters:	Positive pressure, self-contained breathing apparatus is required for all firefighting activities involving hazardous materials.

SECTION 6	ACCIDENTAL RELEASE MEASURES
Response Techniques:	Contain spill, absorb liquid with clay or other absorbent material. Sweep up and package appropriately for disposal.

SECTION 7	HANDLING AND STORAGE
Handling:	Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing or shoes. Use good personal hygiene practices.
Storage:	Use and store this material in dry, well-ventilated areas. Store only in approved containers. Keep container(s) tightly closed. Avoid excessive heat and direct sunlight.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls:	Use process enclosure, general dilution ventilation or local exhaust systems where necessary to maintain airborne dust concentration below the OSHA standards or in accordance with applicable regulations.

Personal Protective Equipment (PPE):	Eye/Face:	Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended.	
	Skin:	Wear pants, shirt, shoes and socks. Gloves may be worn by individuals with sensitive skin.	
	Respiratory:	Under normal conditions, none required. If drift occurs, wear breathing apparatus	
	Other:	A source of clean water should be available in the work area for flushing eyes and skin.	
General Hygiene Considerations:	Wash thoroughly after handling Use adequate ventilation		
Exposure Guidelines:	OSHA Permissible Exposure Limits (PEL):	No OSHA TLV	

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Dark brown or black solution (liquid)	Vapor Pressure (mm Hg):	Not applicable
Odor:	Characteristic fermentation odor	Vapor Density (air=1):	Not applicable
Odor Threshold:	No data available	Specific Gravity or Relative Density:	Not applicable
Physical state:	Liquid	Bulk Density:	1.13 ± 0.02 g/mL
pH:	5.6 – 6.8	Solubility in Water:	Soluble
Melting Point/ Freezing Point:	Not applicable	Partition coefficient:	No data available
Boiling Point:	212°F	Auto-Ignition Temperature:	Not applicable
Flash Point:	Not applicable	Decomposition Temperature:	Not applicable
Evaporation Rate:	No data available	Viscosity:	No data available
Flammability:	Not applicable	Volatility:	Not applicable
Upper/Lower Flammability or explosive limits	Not applicable		

SECTION 10	STABILITY AND REACTIVITY
Reactivity:	No specific test data related to reactivity available for this product.
Chemical Stability:	Stable under normal conditions. Must be kept dry.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid:	Extreme temperatures.
Incompatible Materials:	Strong acid & alkali, organic solvents and oxidizing agents
Hazardous Decomposition Products:	None

SECTION 11	TOXICOLOGICAL INFORMATION
No components of this product are listed as toxic or carcinogenic by NTP, IARC, or OSHA	



SECTION 12	ECOLOGICAL INFORMATION
Ecotoxicology:	This product is bio-degradable. Dispose of this product by diluting it with water and apply to soil, plants, turf, etc.

SECTION 13	DISPOSAL CONSIDERATIONS
	Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations for bacteria regarding the proper disposal of this material.

SECTION 14	TRANSPORT INFO
Non-hazardous	

SECTION 15	REGULATORY INFORMATION
Not Applicable	

SECTION 16	OTHER INFORMATION
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Preparation:	The preparation of this SDS was in accordance with ANSI Z400.1-2010.
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