



SAFETY DATA SHEET

SECTION I - PRODUCT & COMPANY IDENTIFICATION

Product name: BACTENIX® V50
 Product codes: BV50-2YELLOW, BV50-8YELLOW, BV50-16YELLOW, BV50-8DRUM
 Description: Broad Spectrum Antimicrobial
 Product use: For use in fuel ethanol fermentations.
 Supplier name and address: **Lallemand Biofuels & Distilled Spirits**
Corporate Support Center, 1815 Satellite Boulevard, Building 200
Duluth, GA 30097

Information telephone: 1 (678) 474-4590
 Emergency telephone (toll free): 1 (678) 474-4590

SECTION II - HEALTH HAZARD IDENTIFICATION

Caution: Individuals with allergies or hypersensitivity to antibiotics should take caution. May cause allergic respiratory and skin reaction

Signs and symptoms of overexposure to Bactenix V50 through primary routes of exposure:

Skin contact: Dust may cause skin irritation.
 Eye contact: Dust may cause eye irritation.
 Inhalation: Inhalation of dust may cause respiratory tract irritation. Repeated exposure may lead to allergic sensitization in susceptible people.
 Ingestion: May cause effects similar to those generally seen in clinical use of antibiotics including gastrointestinal irritation, vomiting, transient diarrhea, nausea and abdominal pain.

SECTION III – DATA ON COMPONENTS

Product composition: Penicillin G Potassium, Streptomycin and Virginiamycin

Name	CAS #	Content	LD50 & LC50	OSHA PEL	ACGIH TLV
Penicillin G Potassium	113-98-4	1152 u/mg	Not established	Not established	Not established
Streptomycin	57-92-1	720 IU/mg	Not established	Not established	Not established
Virginiamycin	11006-76-1	<51g/kg	Not established	Not established	Not established

SECTION IV – FIRST AID MEASURES (If any symptoms persist, seek medical attention)

Emergency and First aid procedures

Eye contact: Flush eyes for at least 15 minutes. If irritation persists seek medical attention.
 Skin contact: Wash affected area with soap and water. Remove contaminated clothing and wash before reuse
 Inhalation: Immediately remove person to fresh air, If allergic respiratory reaction occurs seek medical advice
 Ingestion: Wash mouth and throat with water seek medical advice if symptoms persist

Medical conditions likely to be aggravated by exposure: Not determined

Delayed effect that can be expected after exposure: Not determined



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SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability:	Flammable solid – Finely dispersed particles may be susceptible to dust explosion
Extinguishing media:	Use appropriate medium for underlying cause of fire, water and foam are suitable.
Hazardous combustion products:	Carbon oxides, nitrous vapors and sulfur oxides.
Special Exposure Procedures:	Avoid inhalation of combustion products
Firefighting procedures:	Use self-contained breathing apparatus (SCBA) when exposed to confined or enclosed fires.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Spilled product should be removed immediately to avoid formation of dust. Keep away from ignition sources. Collect waste in suitable container. Wear appropriate personal protection and maintain good housekeeping practices.

SECTION VII – HANDLING & STORAGE

Handling:	Avoid formation of dust. Avoid contact with eyes, skin and clothing. Wear protective equipment described in Section VIII if exposure conditions warrant. Ensure good ventilation of the room when handling this product
Storage:	Store in original container in cool well ventilated area. Re-seal shipping container by fastening lid.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection:	An approved respirator (NIOSH) should be worn when exposures are expected to exceed the applicable limits,
Eye contact:	Safety glasses/goggles recommended
Hand protection:	Rubber or vinyl gloves
Specific engineering controls:	Use local exhaust.

SECTION IX – PHYSICAL & CHEMICAL PROPERTIES

Chemical Family:	Antimicrobial
Physical state:	Solid
Appearance:	White to off-white crystalline powder
Odour:	Odorless or slight sweet odor.
Odour threshold:	No data available.
Specific gravity:	No data available.
Vapour pressure:	No data available
Vapour density:	No data available
Evaporation rate:	No data available.
Boiling point:	No data available.
Melting point:	106 – 110°C (decomposes)
pH as supplied	5.5 – 7.5 (3.3g/l water at 20°C)
Decomposition temperature	>110°C (230°F)
Viscosity:	No data available
Solubility.	Soluble in Ethanol and Water
Explosive properties	Finely dispersed particles might be sensitive to dust explosion
Lower explosion limit	75 – 100g/m ³



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SECTION X – STABILITY AND REACTIVITY

Stability:	Stable at normal temperatures
Incompatibility:	Do not store with oxidizers or strong acids
Conditions to avoid:	Moisture and high temperatures, accumulation of dust. Protect from sunlight
Hazardous decomposition products:	Carbon oxides, nitrous vapors, sulfur oxides
Hazardous polymerization:	Not determined.

SECTION XI – TOXICOLOGICAL INFORMATION

Sensitization	May produce allergic response in individuals sensitive to Beta Lactam antibiotics such as penicillin.
Irritancy:	Antibiotics are reported to be mild eye irritants.
Carcinogenicity:	Unknown
Reproductive toxicity:	Unknown
Teratogenicity:	Unknown
Mutagenicity:	Unknown
Toxicologically synergistic products:	Unknown

SECTION XII – ECOLOGICAL INFORMATION

Adopt good working practices so that the product is not released into the environment

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Not a DOT or TDG (Canada) regulated material

SECTION XV – REGULATORY INFORMATION

WHMIS Classification of Product	This product has a WHMIS classification of D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by those regulations.
CFIA	Approved for use in Commercial Alcohol Production by The Canadian Food Inspection Agency (CFIA)

SECTION XVI – OTHER INFORMATION

SDS Date of Preparation: January 2013

The information herein is based on current available data and is believed to be correct. No warranty, express or implied, is made regarding data accuracy, merchantability or hazards associated with product use. The user is responsible for determining product suitability, conditions of use and all associated hazards. Values listed in this document are not product specifications.