



SAFETY DATA SHEET

SECTION I - PRODUCT & COMPANY IDENTIFICATION

Product name: LACTOSIDE V™
 Product code: 6631
 Description: 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 Lactoside V 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: Virginiamycin, calcium carbonate and carboxymethyl cellulose

Information on active ingredients as follows:

Name	CAS #	% by weight	LD50 & LC50	OSHA PEL	ACGIH TLV
Virginiamycin	11006-76-1	Proprietary	Not established	Not established	Not established
Inert Filler		Proprietary	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:	Under normal use no special requirements.
Extinguishing media:	Water, dry chemical or CO ₂
Flash point:	Not applicable
Flammable limits:	Not applicable.
Auto-ignition temperature:	No data available.
Hazardous combustion products:	None.
Explosion – sensitivity to mechanical impact:	None.
Explosion – sensitivity to static discharge:	There is a potential for dust explosion if allowed to accumulate and a source of ignition is available.
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. Collect waste in suitable container. 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.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection:	An approved respirator (ie NIOSH) should be worn when exposures are expected to be unusually high
Eye contact:	Safety glasses/goggles recommended
Hand protection:	Rubber or vinyl gloves
Specific engineering controls:	None.
Environmental exposure control	None.

SECTION IX – PHYSICAL & CHEMICAL PROPERTIES

Chemical Family:	Antimicrobial
Physical state:	Powder
Appearance:	Light brown free-flowing powder
Odour:	No data available
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.
Freezing point:	No data available.
Melting point:	No data available
pH:	No data available.
Partition coefficient:	No data available.
Viscosity:	No data available
Solubility in water:	Soluble
Explosive properties	Not applicable



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SECTION X – STABILITY AND REACTIVITY

Stability:	Stable.
Incompatibility:	Do not store with oxidizers
Conditions to avoid:	Moisture and high temperatures accumulation of dust
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and oxides of nitrogen emitted under fire conditions
Hazardous polymerization:	None.

SECTION XI – TOXICOLOGICAL INFORMATION

Effects of short-term exposure:	Inhalation of dust may cause respiratory allergy in susceptible individuals
Effects of long-term exposure:	Unknown
Irritancy:	Unknown.
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 controlled 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 SDS contains all the information required by those regulations.
Canadian Ingredient Disclosure List	Not listed on the Canadian Ingredient Disclosure List

SECTION XVI – OTHER INFORMATION

Date of Preparation: October 2011, Reviewed 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.