

LACTOSIDE V™ antimicrobial is intended for use in fuel ethanol fermentations. The active ingredient is virginiamycin, which controls a wide range of fermentation contaminants known to be detrimental to ethanol production. LACTOSIDE V™ antimicrobial is especially effective in controlling gram-positive bacteria, such as *Lactobacillus* sp., and inhibits protein synthesis in both actively growing and static bacterial cells. Eliminating or controlling bacterial infection prevents competition for glucose, reduces yeast stress and allows increased alcohol yields. LACTOSIDE V™ antimicrobial is suitable for both low pH and high temperature fermentations and should be added during the fermentation phase of alcohol production.

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#### **SPECIFICATIONS**

LACTOSIDE V™ antimicrobial is a light brown free-flowing powder consisting of virginiamycin, calcium carbonate and carboxymethyl cellulose.

#### **APPLICATIONS**

LACTOSIDE V™ antimicrobial is used as a bacterial growth inhibitor and is intended for use in fuel ethanol fermentations and can be used to treat liquids up to 170°F (77°C).

#### **DIRECTIONS FOR USE**

LACTOSIDE V™ antimicrobial should be added during the fermentation phase of alcohol production. Typical usage rate is 0.10 to 3.0 ppm (0.10 to 3.0g per 1,000 liters) or (0.38–11.4 mg/gal). Do not exceed 6.0 ppm (22.8 mg/gal) during the fermentation cycle. Consult your technical sales representative for additional information.

#### **STORAGE AND HANDLING**

LACTOSIDE V™ antimicrobial should be stored in a cool, dry area away from heat for maximum stability. When stored under these conditions, the product is stable for 18 months from the date of manufacture.

#### **PRECAUTIONS**

Avoid inhaling antimicrobial dust and avoid eye or skin contact. In case of contact, wash thoroughly with soap and water. In case of irritation or allergic symptoms, seek medical attention. Maintain integrity of water-soluble bags.

#### **PACKAGING**

LACTOSIDE V™ antimicrobial is available in convenient water-soluble bags packed in 25-kg (55-pound) cartons.

#### **WARNING**

This product is not intended nor suitable for use in animal feed.

*To the best of our knowledge, the information contained here is true and accurate. However, any recommendations or suggestions are made without any warranty or guarantee since conditions and methods of use are beyond our control. This information should not be considered as a recommendation that our products be used in violation of any patents.*

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