



# SWINE HEALTH ABOVE AND BELOW THE SLATS!™

## TECHNICAL DATA SHEET

### Xtreme Bio® – Antimicrobial Multi-Surface Cleaner (Concentrate)

Xtreme Bio® is a highly concentrated broad spectrum antimicrobial that has been tested and proven to kill bacteria and fungus. It has also been proven to inactivate viruses including coronaviruses. When used as directed, Xtreme Bio is effective on all surfaces, including vehicle interiors and porous materials. Xtreme Bio inactivates and eliminates viruses and known pathogens like PEDv, PRRSv, ASFv, PCV-2, SE, and AI. Unlike traditional disinfecting technologies – which are extremely corrosive to transportation equipment and facility assets – Xtreme Bio will not corrode vehicles or material used in CAFOs and other commercial/industrial facilities. Xtreme Bio is made with FDA recognized GRAS (Generally Recognized as Safe) ingredients. Xtreme Bio is non-toxic and non-mutagenic. Xtreme Bio contains no alcohols, iodine, chlorine bleach, ammonia, hydrogen peroxide, methanol, quaternary amines or glutaraldehyde. It is non-carcinogenic, non-pathogenic and does not contain any substances considered dangerous to use. Xtreme Bio is a natural choice of top veterinarians who manage both small and large animal populations. Xtreme Bio is backed by years of studies from top veterinary universities in the US. Xtreme Bio is also supported through independent research lab testing and live field studies.

#### Xtreme Bio Technology Swine Health Above and Below the Slats

##### ABOVE THE SLATS

###### Biosecurity

Xtreme Bio has been proven to effectively kill pathogens, fungus, and inactivate common viruses in the swine industry including but not limited to PRRSv, PEDv, ASFv.

###### Reduce Labor

Xtreme Bio applied through an overhead soaker SOP reduces clean-out time.

###### Safety and Handling Concerns

Xtreme Bio's green chemistry is a safe, effective pathogenic control product when handling and applying during barn washouts.

##### BELOW THE SLATS

###### Manure Management

Xtreme Bio synergistically works with the anaerobic bio-process in the manure pit to reduce bottom sludge/crusting issues.

###### Animal Welfare/Safety Issues

Xtreme Bio helps mitigate noxious gases like NH<sub>3</sub>(Ammonia), H<sub>2</sub>S (Hydrogen Sulfide) and CH<sub>4</sub> (Methane).

###### Nutrient Management/Soil Health

Xtreme Bio works with beneficial biology in the pit for nutrient retention in the manure used for soil/crop applications.

##### OBJECTIVES

- » Reduce Manure-related Issues and Concerns
- » Support Biological Processes
- » Support Animal Welfare Concerns
- » Manage Pit Foam and Safety Concerns
- » Support Manure Pump-out Issues
- » Improve/ Stabilize Manure Nutrients

##### TYPICAL PHYSICAL PROPERTIES

Appearance and Color.....Clear to colorless liquid  
 Initial Freeze Point.....32°F (0°C)  
 Odor.....Mild detergent odor  
 Solubility in Water.....100%  
 Melting Point.....N/A  
 Flashpoint.....N/A  
 Specific Gravity.....1.00± .04

##### DIRECTIONS FOR USE

###### POROUS AND NON POROUS SURFACES:

A solution of 2 ounces of Xtreme Bio per gallon of water may be used as a disinfectant/detergent when cleaning surfaces. To treat clean surfaces, use 1/2 ounce of Xtreme Bio per gallon of water. Apply with mop, brush, spraying or foaming equipment. Allow to air dry on surface.

###### LIVESTOCK FACILITIES & EQUIPMENT:

Remove manure, soil, dirt, bedding, feed and watering equipment. Thoroughly scrape surfaces, equipment and tools to reduce organic material to minimal amounts. Pressure wash all surfaces clean. A solution of 2 ounces of Xtreme Bio per gallon of water may be used as a disinfectant/detergent when cleaning surfaces. To treat clean surfaces, use a solution of 1/2 ounce of Xtreme Bio per gallon of water on a clean surface. Apply with mop, brush, spraying or foaming equipment. Allow to air dry on surface.

For use in temperatures below freezing propylene glycol may be added.

##### STORAGE AND HANDLING:

Rinse empty container with water and discard as per federal, state and local guidelines. Suggested shelf life of Xtreme Bio is 2 years. Xtreme Bio test strips can be requested from your supplier to verify product activity.

##### PACKAGING:

Xtreme Bio is packaged in 4x1 gallon cases, 5 gallon pails, 55 gallon drums and 275 gallon totes.



**Midwest Ag**  
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*Recommendations given in this data sheet are based on tests believed to be reliable. However, the use of the information is beyond the control of Midwest Ag, LLC and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.*