



**Modec's Decon Formula (MDF)  
is Commercially Manufactured  
using the Formula Licensed by**



**Sandia National Laboratories**

## **MDF BIOFILM PRO**

### **Biofilm Decon Treatment Formula**

**The Problem:** The instant pipes or tanks are filled with water, Glycocalyx – better known as biofilms - form.

Glycocalyx are created from extracellular polymeric substances excreted by bacteria. These sticky polymers hold the biofilm together and cement it to the pipe wall. The glycocalyx trap nutrients and protect the underlying bacteria from biocides including bleach.

These inert coatings allow for the accumulation of complex, metabolically cooperative bacterial communities that often produce highly pungent odors as well as slime. Biofilms often permeate themselves at all levels throughout pipe, pools or tank systems.

**The Decon Solution:** Testing conducted by Sandia National Laboratories indicates that the formulation is “extremely effective” for the complete decontamination of biofilms on all test surfaces.<sup>1</sup>

#### **Modec's BioFilm Pro:**

- **Incorporates unique wetting agents for thorough penetration of polymeric substances (microbial metabolites).**
- **Attacks and denatures polysaccharide-based extracellular polymers**
- **Economical, safe and non-toxic to apply**
- **Reduces slime and odors**
- **Requires only periodic application**
- **Thoroughly cleans surfaces**
- **Proven Patented Technology**

<sup>1</sup> Bicker, Phebus, Oberst, Tucker, Marsden, Boyle, and Boyer, Jr, “*Listeria monocytogenes* and *Pseudomonas putida* Biofilms Treated with Sandia National Laboratories Decon Foam 200”, Kansas State University and Sandia National Laboratories.