



**NimbuDerm™**

*Assurance of germ-free hands*

## **NimbuDerm™ Technology Summary**

Highlights – NimbuDerm:

- ✚ Forms a skin protection film barrier
- ✚ Remains on skin until removed by soap and water
- ✚ Effectively kills pathogens immediately
- ✚ Continues to destroy microorganisms on contact for more than six hours
- ✚ Has broad spectrum efficacy
- ✚ Can be formulated as a skin sanitizer liquid, spray, foam or wipe
- ✚ Can be customized to end user applications as required.

In the quest for a cutting-edge barrier wound dressing that supports the healing process, Quick-Med Technologies, Inc. has invented an antimicrobial polymer film barrier to protect against contact germ contamination.

NimbuDerm is a proprietary, persistent antimicrobial skin protective barrier. It consists of a unique antimicrobial polymer that is combined with a liquid vehicle and other components such as a gel thickener, emollient, skin freshener, moisturizer or fragrance as required.

When the polymer is combined with alcohol and a gel, it appears and feels much like alcohol based hand sanitizers on the market such as Purell®. It is superior to those products in that NimbuDerm retains its efficacy beyond the time when the alcohol evaporates. When tested on the skin of human volunteers using a standard ASTM test method, it's immediate performance matches commercially available sanitizers (99.99% reduction of germs) with increased performance of 99.9999% at four and six hours. Each reading is taken immediately after the skin is inoculated. Since it doesn't lose integrity during most of a normal work day, it potentially may be considered to be a barrier device that could be evaluated by FDA outside of the OTC Monograph Process for providing barrier protection against the contamination of the user by physical contact with surfaces laden with microbes including bacteria, fungi and viruses. It is easily removed by a soap and water wash.

The base antimicrobial polymer can be modified to various forms such as spray, wipe or foam. It can be formulated to contain various skin treatments such as sun-block, emollients, fragrances, moisturizers and emollients. One form under development is a version which retains the same efficacy and is suitable for use on sensitive baby skin as well as for the elderly.

*This document describes a prototype product and is not intended to make or imply public health claims.*