

Alcohol-Free Hand Sanitizer

Product Specifications Sheet

Product Information:

Description/Specification: Alcohol-Free Hand Sanitizer is formulated for use without the need for washing to effectively kill everyday germs.

Usage: Ideal for use in laboratory settings, offices, schools, or any public setting where the spread of germs is likely.

Method of Use: Apply enough product to thoroughly cover both hands. Rub hands together briskly until dry. No rinsing is required.

Technical Data:

Ingredients:

Active: Benzalkonium Chloride (0.16%)

Inactive: Purified Water (Aqua), Decyl glucoside, Glycerin, Phenoxyethanol

Handling Instructions: Avoid direct contact with eyes. In case eye contact has occurred, flush eyes with water for at least 5-10 minutes. If condition persists, seek medical attention.

Shelf Life: This product has a recommended shelf life of 12 months from the date of manufacture.

General Information:

Benzalkonium chloride is a member of the quaternary ammonium class of biocides, recognized for its dual biocidal and detergent properties. Its biocidal efficacy depends on its capacity to act as a cationic surfactant in binding to and disrupting cellular and intracellular membranes, and associated biochemical processes. Functions such as cell adhesion, cell signaling, selective permeability to ions and nutritional organic molecules ensure cellular survival through its ability to interact with and respond effectively to environmental stimuli. Disruption of these processes ensures a high level of activity against bacteria, algae, fungi and enveloped viruses at exceptionally low concentrations.

Benzalkonium chloride is widely used in the formulation of disinfectants and cleaner-sanitizers for the hospital, livestock, food & dairy and personal hygiene sectors.

Offers rapid, safe, powerful antimicrobial activity at low ppm

Strong detergency ensures ease of removal of organic soil which harbours microbes

Ease of formulation for biocidal activity under high organic contamination conditions

Compatible with non-ionic, amphoteric and cationic surface-active agents

Displays synergistic activity with other classes of biocide & excipients

Retains activity in highly acid to highly alkaline formulations

High molecular stability with retention of activity at extremes of temperature

Lends itself well to formulation optimization for hard water conditions

Retains biocidal activity in aqueous and organic solvents

Benzalkonium chloride disinfectants are non-toxic, non-staining & odor-free at typical use dilutions