



# AC ENVIRONMENTAL SERVICES

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190 Church Street, Garson,  
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## SafetySmart™ Hand Sanitizer

Safety Smart™ Hand Sanitizer is a specially formulated skin antiseptic lotion containing a broad spectrum of antimicrobial activity that forms a protective film on healthy skin. SafetySmart can be applied to any area of intact skin. Each protective molecule is surrounded by PERSISTENT antimicrobial activity to fight bacterial pathogens. Within seconds it will inhibit the growth of and kill potent disease-causing bacterial micro organisms. SafetySmart Hand Sanitizer is a patent pending, FDA compliant antimicrobial hand sanitizing lotion based on the active ingredient Benzalkonium chloride. As an over-the-counter antimicrobial hand sanitizer it can be used to provide protection where soap and water are not readily available or in between regular hand washings. Benzalkonium chloride is an alcohol free antimicrobial compound that has been widely used in the health care industry for more than 60 years. It has been used in formulas for surface cleaners, sterilizing agents, and leave-on FDA Monograph antibacterial skin treatment products. Its chemical properties make it an excellent candidate for persistent antimicrobial activity in mammalian tissue (skin).

SafetySmart Hand Sanitizer is great for use in the office, factory, hospitals, prisons, meat packing plants, boats, warehouse, or in the field. Use anywhere that germs and bacteria are present or where the threat of cross contamination is present.

### Reasons to use SafetySmart:

- Alcohol Free
- Fragrance Free
- No Triclosan!
- Non Flammable
- Non Toxic
- Moisturizes & Conditions
- Instant Germ Killer
- Kills 99.99 % of Pathogenic Bacteria
- Protects up to 4 hours
- Vitamin E Enriched
- Lasts Hundreds Of Times Longer Than Alcohol Gels



SafetySmart is available as a moisturizing lotion and as saturated wipes in re-sealable canisters. The active ingredients in the wipes will disinfect your hands, while the wipe itself will help to clean dirt and other soils from your hands. The lotion will moisturize and condition your skin, while killing germs and disinfecting your hands, leaving them with a soft and silky after-feel. This gentle formula will kill microbes in seconds and helps to reduce the risk of infection.



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## 54.9% ISOPROPYL ALCOHOL GEL vs. SAFETYSMART HAND SANITIZER COMPARISON CHART:

STANDARD ALCOHOL GELS	SAFETYSMART HAND SANITIZER
Instant germ killer (no residual effects)	Instant germ killer and up to 4 hour residual germ killer
Evaporates/Washes off with water	Remains effective after hand washing
Isopropyl alcohol based	Does not contain alcohol or petroleum
Does not contain emollients or moisturizers	Contains Vitamin E and Dimethicone Emollients
Extremely drying to skin	Soothes and moisturizes dry skin with Vitamin E
Causes irritation and flaking of skin	Helps improve the quality of the skin
Must reapply every 10 minutes	Reapply every 3-4 hours
Flammable	Non-flammable
Offensive alcohol odour	Pleasant smell

### Issues Surrounding Gloves:

- Gloves are designed to protect the person, not prevent cross-contamination
- Gloves are not changed as often as necessary “second skin effect”<sup>1</sup>
- Survival of infectious agents is greater on gloves than on hands
- Gloves are not easily sanitized between uses
- Gloves leak (American Industrial Hygiene Association)
- Gloves transfer infectious agents to food (Journal of Food Protection)
- Gloves occlusion amplifies the bacteria on the hand<sup>1</sup> Journal American Medical Association 1993, vol: 270

### WHAT DOES THE COMPARISON SHOWN ABOVE MEAN TO YOU?

Once the alcohol gel dries in a “Purel®” type of product, you have no more protection from germs. That is because there is NO persistent antimicrobial activity from alcohol after it dries. Alcohol Gels are flammable, as they usually contain at least 50% or more of either Isopropyl Alcohol (IPA) or Ethyl Alcohol (Ethanol). These alcohol gel or alcohol based liquid hand sanitizers are flammable, and create a fire hazard in storage areas, kitchens, and other areas where an ignition source is present. IPA is toxic if ingested, and Ethyl Alcohol Ethanol is the same alcohol as is found in Alcoholic Beverages. If kids drink it, they can either be poisoned, become sick, or get inebriated. IPA can cause blindness if ingested or if it gets in the eyes. Alcohols are drying to the skin, and remove the natural oils found in skin. This actually results in making your skin more susceptible to germs and infection. SafetySmart not only kills germs on contact, but will continue to kill germs for up to 4 hours when your skin naturally exfoliates. SafetySmart™ will moisturize and condition your skin, and will help to heal damaged skin with regular use. SafetySmart will hold up to several hand washings, leaving skin smooth and protected. Because it is fragrance free, it won't leave fruity or floral smells on your hands, and won't leave the essential oils associated with many fragrances on your hands that can cause allergic reactions.