

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION: Smart-San Alcohol-Free Hand Sanitizer Foam

**Chemical Family:** Benzalkonium Chloride Mixture  
**Manufactured By:** BEST SANITIZERS, Inc.  
P.O. Box 1360, 17320 Penn Valley Drive  
Penn Valley, CA 95946

**Emergency Information:** CHEMTREC toll-free, 24-hour emergency telephone number, 800-424-9300 or Best Sanitizers 1 (888) 225-3267, 8-5, Pacific Standard Time

**Date Revised:** February 17, 2009

## 2. HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Percent*	ACGIH TLV	OSHA PEL	Other (specify)
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none

\*Not a required category

Exposure Limits In Air (ppm)

## 3. PHYSICAL PROPERTIES

Vapor Density:	NA	Physical State:	Liquid Solution
Vapor Pressure:	NA	Color:	Pale yellow to amber
Specific Gravity:	1.0@20°C	Odor:	Mild
Melting Point:	NA	Miscibility:	100% in water
Boiling Point:	100°C / 212°F	Stability:	>5 years
Viscosity:	non-viscous	Corrosion:	non-corrosive

Product does not stain skin, fabrics, plastics, metals, glass, or formica.

**How To Detect This Substance:** Mild odor

## 4. FIRE AND EXPLOSION

Flash point: NA

Auto-ignition temperature: NA

NFPA Rating: Health (1), Fire (1), Reactivity (0) (Does not apply to exposure hazards other than during a fire.)

**FIRE FIGHTING PROCEDURES:** This product is not combustible. Use appropriate media for the material that is burning. Water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect persons attempting to stop a leak. Water may be used to dilute spills. Wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

## 5. HEALTH HAZARD INFORMATION

**SYMPTOMS OF OVEREXPOSURE** for each potential route of exposure:

**INHALATION:** Direct contact or exposure to high concentration of mists and/or vapors may cause irritation.

**INGESTION:** Ingestion may cause gastrointestinal irritation, including nausea and diarrhea.

**EYE CONTACT:** Can cause eye irritation (stinging sensation) and tear production. Redness of conjunctiva may occur.

**SKIN CONTACT:** Causes no skin irritation if used as directed. Excessive, continuous exposure for a long period of time may cause irritation of skin. Rate of absorption of active ingredients through skin or the effects there of are unknown.

### HEALTH EFFECTS FROM EXPOSURE

**ACUTE/CHRONIC:** No special acute or chronic effects or risks are expected from usage as directed on label.

No known medical conditions are aggravated with exposure and not reported as carcinogen. Brief, repeated daily use as a skin sanitizer is not harmful and may be beneficial in aiding the healing of skin damaged by excessive, daily handwashing with soaps and detergents as well as skin affected by bacterial, viral or fungal infections.

Brief contact with eyes, conjunctiva or other mucous membranes may cause temporary irritation. Ingestion may cause irritation of throat, esophagus and other gastrointestinal organs.

**FIRST AID, EMERGENCY PROCEDURES**

**EYE CONTACT:** Immediately flush affected area with plenty of cool water for at least 15 minutes. **GET MEDICAL ATTENTION IMMEDIATELY.**

**INHALATION:** Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth. **GET MEDICAL ATTENTION IMMEDIATELY.**

**INGESTION:** If victim is conscious and able to swallow, have victim drink water or milk to dilute. Never give victim anything by mouth if victim is unconscious or having convulsions. **CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.** Induce vomiting only if advised by physician or poison control center.

**SUSPECTED CANCER AGENT:** No. Products ingredients are not found in Federal OSHA, NTP or IARC.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known when used as directed.

**6. REACTIVITY DATA**

**STABILITY:** Stable at room temperature for at least 5 years in a tightly closed container.

**CONDITIONS AND MATERIALS TO AVOID:** Avoid contact with heat.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon and Nitrogen on combustion.

**HAZARDOUS POLYMERIZATION:** None likely.

**INCOMPATIBILITY:** Unknown.

**7. SPILL, LEAK AND DISPOSAL PROCEDURES**

**ENVIRONMENTAL PRECAUTIONS:** Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

**SPILL OR LEAK PROCEDURES:** In case of large spills, wear appropriate respiratory protection. Eliminate possible ignition sources. Contain spilled material. Transfer to secure containers. Where necessary, collect spilled product using absorbent media. Dilute spill with water and directly flow to any available sanitary drain. In the event of an uncontrolled release of this product, the user should determine if the release is reportable under applicable laws and regulations.

**WASTE DISPOSAL:** All recovered product may be dispensed along with water through normal sanitary sewage systems in gradual releases.

Note: Dispose of all wastes in accordance with federal, state and local regulations.

**8. SPECIAL HANDLING INFORMATION**

**VENTILATION:** Adequate ventilation should be available for all uses of this product.

**RESPIRATORY PROTECTION:** Where exposure is likely to exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. For normal use of product as a skin sanitizer, no respirators are deemed necessary.

**EYE PROTECTION:** Contact of product with the eyes is not expected or anticipated in the normal use; however, if there is a possibility of splashing or other means of contact with eyes, chemical safety goggles meeting the specifications of ANSI Standard Z87. 1 should be worn.

**GLOVES OR OTHER PROTECTIVE CLOTHING:** No protective gloves or clothing are deemed necessary for normal application of product as a skin sanitizer.

**STORAGE:** Store product in tightly closed container, away from areas of high heat, flames or potential sparks. Empty containers may be discarded in trash after rinsing with water.

**SHIPPING DESCRIPTION:** Non hazardous product, not regulated.

NA = Not Applicable