SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product Name **SmartSan Hand Sanitizer Foam or ALPET E3 Hand Sanitizer Foam**

Other means of identification
Foaming Hand Sanitizer

Distributor Address
Best Sanitizers, Inc.
PO Box 1360
Penn Valley, CA 95946

Emergency telephone number

Emergency Phone Numbers For Transportation Emergencies, call Chemtrec:
1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification
OSHA Regulatory Status--This chemical is considered hazardous by the 2012 OSHA Hazard Communication, 29 CFR §1910.1200. This material is an Over-The-Counter consumer product that is safe for consumers/workplaces with intended and reasonable foreseeable use. Please follow label instructions. NOTE: Warnings below are for exposure to large quantities of the product. Normal usage should not create a hazardous condition.

Flammable liquids	Category 3

Signal word **Warning**

Hazard statements
Flammable liquid and vapor

Appearance Aqueous solution **Physical State** Liquid **Odor** Alcohol odor

Precautionary Statements - Prevention
Keep away from heat/sparks/open flames/hot surfaces-----No Smoking.
Do not use in eyes.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin (hair) with water/shower.
In case of fire: Use CO2, dry chemical, or foam for extinction.

Precautionary Statements - Storage
Stored in a well-ventilated place. Keep Cool.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	Trade Secret
Ethyl alcohol	64-17-5	66-76	
Tertiary Butyl Alcohol	75-65-1	<0.1	
Remaining ingredients are non-hazardous and/or present at amounts below reportable limits and considered confidential.			

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Eye Contact — Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). If eye irritation persists: Get medical advice/attention.

Skin Contact — Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing and shoes before reuse. Get medical attention if irritation develops and persists.

Inhalation — Remove to fresh air. Immediate medical attention is not required.

Ingestion — Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects — See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry Chemical, Water spray (fog), Carbon dioxide (CO2), Foam.

Unsuitable Extinguishing Media

No Information available.

Specific Hazards Arising from the Chemical
Flammable. Vapors may travel to source of ignition and flash back.

Hazardous combustion products

Carbon Monoxide. Carbon Dioxide (CO2).

Explosion Data

Sensitivity to Mechanical Impact: None.
Sensitivity to Static Discharge: May be ignited by friction, heat, sparks, or flames.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.

For emergency responders Isolate area. Keep unnecessary personnel away.

Environmental precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (See Section 13).

Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. May be ignited by friction, heat, sparks, or flames. Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from heat sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, and static electricity). Take precautionary measures against static discharges. Do not eat, drink, or smoke when using this product. Use personal protection recommended in Section 8. Avoid contact with skin, eyes, or clothing. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions/ Incompatible materials

Keep Containers tightly closed in a dry, cool, and well-ventilated place. Keep from freezing. Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, and static electricity). Store between 40 to 100˚F.

Heat, sparks, open flame, other ignition sources. Reacts violently with strong oxidants such as nitric acid and silver nitrate causing fire and explosion hazard. Reacts slowly with calcium hypochlorite and ammonia causing fire and explosion hazard.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 980 mg/m3 vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m3	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Controls Showers, eyewash stations, ventilation system.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective Neoprene™ gloves. Rubber gloves. Normal work clothing (long sleeved shirt and long pants) is recommended. Apron is recommended.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Formula: See Section 3
Appearance: Aqueous solution
Color: Clear

Physical State Liquid
Odor: Alcohol odor
Odor Threshold: Not Determined

Property	Values	Remarks/ Method
pH	No information available	±1 @ 21˚C
Melting/freezing point	No Information available	

Boiling point / boiling range	No Information available	None known
Flash Point	25 ˚C / 77˚F	None known
Evaporation rate	No Information available	None known
Flammability (solid, gas)	No Information available	None known
Flammability Limits in Air		
Upper flammability limit	19.0%	None known
Lower flammability limit	3.3%	None known
Vapor pressure	No Information available	None known
Vapor density	No Information available	None known
Specific Gravity	0.91	None known
Water Solubility	Soluble in water.	None known
Partition coefficient:	No Information available	None known
Autoignition temperature	No Information available	None known
Decomposition temperature	No Information available	None known
Kinematic viscosity	No Information available	None known
Dynamic viscosity	No Information available	None known
Explosive properties	No Information available	None known
Oxidizing properties	No Information available	None known

10. STABILITY AND REACTIVITY

Reactivity
No data available.
Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Conditions to avoid
Heat, flames and sparks, extreme temperature conditions.
Incompatible materials
Heat, sparks, open flame, other ignition sources. Reacts violently with strong oxidants such as nitric acid and silver nitrate causing fire and explosion hazard. Reacts slowly with calcium, hypochlorite and ammonia causing fire and explosion hazard.
Hazardous Decomposition Products
Carbon monoxide. Carbon dioxide (CO_2). Nitrogen.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product information

Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye Contact	Irritating to eyes
Skin Contact	Prolonged contact may cause irritation.
Ingestion	May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Ethyl alcohol 64-17-5	= 7060 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 31623 ppm (Rat) 4 h

Information on toxicological effects

Symptoms	No information available
Sensitization	No Information Available
Germ cell mutagenicity	No Information Available
Carcinogenicity	IARC: Group 3 (Not classifiable as to its carcinogenicity to humans).
Reproductive toxicity	No Information Available
STOT single exposure	No Information Available
STOT repeated exposure	No Information Available
Aspiration hazard	No information available

Numerical measures of toxicity –Product Information

Unknown Acute Toxicity No information available

12. Ecological Data

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Ethyl Alcohol 64-17-5	12900: 96 h Oncorhynchus mykiss mL/L LC50	12-16.0: 96 h Oncorhynchus mykiss ms/L LC50 Static 100: 96 h Pimephales promelas ms/L LC50 static 13400-15100: 96 h Pimephales promelas ms/L LC50 flow-through	9268-14221: 48 h Daphnia magna mg/L LC50 24 h Daphnia magna mg/L EC50 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability

No Information Available.

Bioaccumulation

Chemical Name	Partition Coefficient
Ethyl Alcohol	-0.32

Mobility in soil

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Contaminated packaging

Dispose of in accordance with federal, state, and local regulations.

Chemical Name	California Hazardous Waste Status
Ethyl Alcohol 64-17-5	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

UN/ID/NA Number: UN 1170
Proper shipping name: Ethanol Flammable liquids
Hazard Class: 3
Packing group: III

Limited Quantities for packages under 1 Liter
Exempt DOT SP 9275 for packages under 1 gallon

15. REGULATORY INFORMATION

Chemical Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS—European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note: Isopropyl alcohol only needs to be reported if it is being manufactured by the strong acid process. Facilities that process or otherwise use isopropyl alcohol are NOT covered and should NOT file a report.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substance regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substance regulated as a hazardous substance under the Comprehensive Environment Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local regional or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol 64-17-5	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA	**Health Hazard** 1	**Flammability** 3	**Instability** 0	**Physical & Chemical Hazards** None
HMIS	**Health Hazard** 2	**Flammability** 3	**Physical Hazard** 0	**Personal Protection** B (safety glasses)

Prepared By Technical Department

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General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet