Safety Data Sheet

62% Alcohol Foam Hand Sanitizer

Section 1

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>SmartSan Hand Sanitizer Foam or ALPET E3 Hand Sanitizer Foam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Uses:</td>
<td>Hand Sanitizer</td>
</tr>
<tr>
<td>Synonyms:</td>
<td>Foaming Hand Sanitizer</td>
</tr>
<tr>
<td>Distributor:</td>
<td>Best Sanitizers, Inc.</td>
</tr>
<tr>
<td>PO Box 1360 Penn Valley, CA 95946</td>
<td></td>
</tr>
</tbody>
</table>

Chemical Information Emergency:
Chemtrec 1.800.424.9300

Section 2

Hazard Indentification

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

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.

Hazard not otherwise classified (HNOC)
Not Applicable.

Other Information
Unknown Acute Toxicity.

Section 3
Composition/Information on Ingredients
Ingredients considered hazardous as defined by OSHA, 29 CFR 1910.1200, WHMIS under the HPA (Canada).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>66-76</td>
</tr>
<tr>
<td>Tertiary Butyl Alcohol</td>
<td>75-65-0</td>
<td>&lt; 0.1</td>
</tr>
</tbody>
</table>

Remaining ingredients are non-hazardous and/or present at amounts below reportable limits and considered confidential.

Section 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

Symptoms
See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

Section 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
Section 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  
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.

Section 7  Handling and Storage

Precautions for Safe Handling  
Advice on Safe 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  
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.

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.
Safety Data Sheet

Section 8  Protection Information

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm TWA: 980 mg/m³ (vacated)</td>
<td>TWA: 1000 ppm (vacated) TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>64-17-5</td>
<td></td>
<td></td>
<td>IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls

Engineering Controls

Shower, 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.

**General Hygiene Considerations**

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.

Section 9  Physical and Chemical Properties

Information on basic physical and chemical properties

- **Formula**: See Section 3
- **Odor**: Alcohol Odor
- **Odor Threshold**: No Information Available
- **Physical State**: Liquid
- **Appearance**: Aqueous solution
- **Color**: Clear
- **Remarks—Method**: ± 1 @ 21°C

**Property** | **Values** | **Remarks**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No Information available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/ Boiling Range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>25 °C / 77°F</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
Safety Data Sheet

Flammability Limit in Air
- Upper flammability limit: 19.0%
- Lower flammability limit: 3.3%

Vapor pressure: No information available
Vapor density: No information available
Specific Gravity: 0.91
Water solubility: Soluble in water
Partition coefficient: No information available
Autoignition temperature: No information available
Decomposition temperature: No information available
Kinematic viscosity: No information available
Dynamic viscosity: No information available
Explosive properties: No information available
Oxidizing properties: No information available

Section 10 Stability and Reactivity Data

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.


Section 11 Toxicity Data

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water, 7732-18-5</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>= 7060 mg/kg (Rat)</td>
<td>&gt; 20000 mg/kg (Rabbit)</td>
<td>= 31623 ppm (Rat) 4 h</td>
</tr>
</tbody>
</table>
Information on toxicological effects

Symptoms: No Information Available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Section 12 Ecological Data

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>12900: 96 h Oncorhynchus mykiss mL/L LC50</td>
<td>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</td>
<td>9268-14221: 48 h Daphnia magna mg/L LC50 24 h Daphnia magna mg/L EC50 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Persistence and degradability
No Information Available.

Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>0.32</td>
</tr>
</tbody>
</table>

Mobility
No information available.

Other adverse effects
No information available.

Section 13  Disposal Information

Waste treatment 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>Toxic</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ignitable</td>
</tr>
</tbody>
</table>

Section 14  Transport Information

DOT
UN/ID No. 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
International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

Legend:
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

US 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

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Sudden Release of pressure hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>64-17-5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable
## Safety Data Sheet

### Section 16 Additional Information

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
<td></td>
<td>B (safety glasses, gloves)</td>
</tr>
</tbody>
</table>

Prepared by: Technical Department  
Revision Date: March, 2017  
Version: 2  
Revision Note: No information available

### 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 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  
LS 104-215-00.008