

## Safety Data Sheet

### SmartSan ES Fragrance Free Hand Sanitizer



#### Section 1

#### Product Description

Product Name: SmartSan ES Fragrance Free Hand Sanitizer  
Recommended Uses: Hand Sanitizer  
Synonyms: ES  
Distributor: Best Sanitizers, Inc.  
PO Box 1360 Penn Valley, CA 95946  
Chemical Information Emergency:  
Chemtrec 1.800.424.9300

#### Section 2

#### Hazard Identification

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 CO<sub>2</sub>, dry chemical, or foam for extinction.

#### Precautionary Statements—Storage

Stored in a well-ventilated place. Keep Cool.

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## Precautionary Statements—Disposal

Dispose of contents/container to an approved waste disposal plant.

## Hazards 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).

Chemical Name	CAS No.	Weight-%
Ethyl Alcohol	64-17-5	60-70
Isopropyl Alcohol	67-63-0	5-9

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 (CO<sub>2</sub>), 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 (CO<sub>2</sub>).

#### 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

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gear. Cool containers with flooding quantities of water until well after fire is out.

## 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.
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For emergency responders	Isolate area. Keep unnecessary personnel away.
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### Environment Precautions

Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information.
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### 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).
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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.
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## 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.
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### 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.
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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.
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## Section 8

## Protection Information

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 ppm (vacated)STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 980 mg/m <sup>3</sup> vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

### 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.
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	Physical State:	Liquid
Odor:	Fragrance Free	Appearance:	Aqueous solution
Odor Threshold:	No Information Available	Color:	Clear
<b>Property</b>	<b>Values</b>	<b>Remarks—Method</b>	
pH	No Information	± 1 @ 21°C	
Melting Point/Freezing Point	No Information		
Boiling Point/ Boiling Range	No information available		
Flash Point	24 °C / 75.2°F		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		

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## Flammability Limit in Air

Upper flammability limit: 15.0%

Lower flammability limit: 5.5%

Vapor pressure: No information available

Vapor density: No information available

Specific Gravity 0.8564-0.9000

Water solubility Soluble in water

Partition coefficient No information available

Autoignition temperature > 363 ° C/685 ° F

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.

### Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen.

## 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.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water, 7732-18-5	> 90 mL/kg (Rat)	-	-
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h
Ethyl alcohol 64-17-5	= 7060 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	= 31623 ppm (Rat) 4 h

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## 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 0.5% of the mixture consists of direct food additives.

The following values are calculated based on Chapter 3.1 of the GHS document

ATEmix (dermal) 32989 mg/kg mg/l

ATEmix (inhalation-vapor) 2243.7 mg/l

## Section 12

## Ecological Data

### Ecotoxicity

5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Isopropyl alcohol 67-63-0	1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50	13299: 48 h <i>Daphnia magna</i> mg/L EC50
Ethyl alcohol 64-17-5	12900: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50	12-16.0: 96 h <i>Oncorhynchus mykiss</i> ms/L LC50 Static 100: 96 h <i>Pimephales promelas</i> ms/L LC50 static 13400-15100: 96 h <i>Pimephales promelas</i> ms/L LC50 flow-through	9268-14221: 48 h <i>Daphnia magna</i> mg/L LC50 24 h <i>Daphnia magna</i> mg/L EC50 48 h <i>Daphnia magna</i> mg/L EC50 Static

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## **Persistence and degradability**

No Information Available.

## **Bioaccumulation**

Chemical Name	Partition Coefficient
Isopropyl alcohol	0.05
Ethyl alcohol	-0.32

## **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.

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol 67-63-0	Toxic Ignitable
Ethyl alcohol 64-17-5	Toxic Ignitable

## **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

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## Section 15

## Regulatory Information

### International Inventories

<b>TSCA</b>	<b>Complies</b>
<b>DSL/NDSL</b>	<b>Complies</b>
<b>EINECS/ELINCS</b>	<b>Complies</b>

### 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

Acute health hazard	Yes
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
Isopropyl alcohol 67-63-0	X	X	X
Ethyl alcohol 64-17-5	X	X	X

#### U.S. EPA Label Information

<b>EPA Pesticide Registration Number</b>	Not Applicable
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## Section 16

## Additional Information

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical and Chemical Properties</b>
	1	3	0	None
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal protection</b>
	2	3	0	B (safety glasses, gloves)

**Prepared by:** Technical Department  
**Revision Date** June 26, 2015  
**Version** 1  
**Revision Note** Data updates to Section 9

### 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**

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