SAFETY DATA SHEET

SECTION ONE – PRODUCT and COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: DermEssentials Advanced Hand Sanitizer

MANUFACTURER: SmartScience Laboratories, Inc.
13760 Reptron Blvd
Tampa, Florida 33626

CHEMICAL DESCRIPTION: Antiseptic product with Vitamin E and Aloe

RECOMMENDED USE: Hand Sanitizer.

RESTRICTIONS ON USE: This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonable foreseeable use. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills.

IN CASE OF EMERGENCY: 813-925-8454

SECTION TWO – HAZARDOUS INGREDIENTS

“Consumer Products” as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

CLASSIFIED HAZARDS: Flammable (ethyl alcohol), Skin irritant, eye irritant and specific target organ system toxicity.

GHS CLASSIFICATION

FLAMMABLE LIQUIDS: Category 3

EYE IRRITATION: Category 2A

LABEL ELEMENTS:
PRECAUTIONARY STATEMENTS

PREVENTION:
P210: Keep away from heat/sparks/open flames and hot surfaces. No smoking allowed near the exposure area.
P233: Keep container tightly closed.
P241: Use explosion proof electrical/lighting/ventilating equipment.
P242: Use non-sparking tools only.
P243: Take precautionary measures against static discharge.
P264: Wash thoroughly after handling.
P280: Wear protective gloves, eye and face protection.

RESPONSE:
P303 + P361 + P353 IF ON SKIN OR HAIR: Take off immediately all contaminated clothing and rinse with excess water.
P305 + P351 + P338 IF IN EYES: Rinse with excessive water for several minutes. Remove contact lenses if applicable and continue to rinse several times.
P337 + P313 IF EYE IRRITATION PERSISTS: Get medical advice.

STORAGE:
P403 + P235: Store in a well-ventilated place, away from heat.

DISPOSAL:
P501: Dispose contents/containers to an approved waste disposal plant.

HAZARD STATEMENTS:
H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.

HAZARDS NOT OTHERWISE CLASSIFIED: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

OTHER INFORMATION: See Section 11 for toxicological information and Section 12 for potential environmental effects.

SECTION THREE – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>CAS No.</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>70</td>
</tr>
<tr>
<td>Purified water</td>
<td>7732-18-5</td>
<td>To 100</td>
</tr>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>1</td>
</tr>
<tr>
<td>C10/30 Alkyl Acrylate Crosspolymer</td>
<td>138789-85-2</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Aloe Vera</td>
<td>94349-62-9</td>
<td>&lt;1</td>
</tr>
<tr>
<td>d-Limonene</td>
<td>5989-27-5</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Disodium EDTA</td>
<td>29031-19-4</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Tocopherol Acetate</td>
<td>7695-91-2</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

SECTION FOUR – FIRST AID MEASURES

EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, get medical advice/attention.
SKIN CONTACT: In the case of skin irritation or allergic reactions consult a physician.

INHALATION: Not an expected route of exposure. Remove to fresh air. If symptoms persists, consult a physician.

INGESTION: Not an expected route of exposure. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Skin and eye irritation.

INDICATION OF ANY IMMEDIATE ATTENTION AND SPECIAL TREATMENT NEEDED: Treat symptomatically.

SECTION FIVE – FIRE-FIGHTING MEASURES

SUITABLE EXINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment using either one of the following as such or in combination:
- Water spray
- Alcohol-resistant foam
- Dry chemical
- Carbon dioxide

UNSUITABLE EXINGUISHING MEDIA: High volume water jet.

SPECIFIC HAZARD ARAISING FROM CHEMICAL: NFPA Rating: Health: 2, Fire: 3, Reactivity: 0
(Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious and 4 = Severe)
Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air.

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides.

SPECIFIC EXINGUISHING METHODS: Use water spray to cool unopened containers. Remove undamaged containers from fire area if possible and evacuate the area.

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: As in any fire, wear self-container breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

OTHER INFORMATION: Flash Point: 21.6°C; Auto ignition (Ethyl Alcohol) 363 °C.

SECTION SIX – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Remove all source of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
ENVIRONMENTAL PRECAUTIONS: Do not allow into any sewer, on the ground or into any body of water. Prevent further leakage or spills if it is safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillage cannot be contained.

METHODS AND MATERIALS FOR CONTAMINATION AND CLEANING UP: Wipe up with absorbent material such as cloth or fleece. Collect spillage. Local or national regulations may apply to release and disposal of this material, as well as those materials and items employed in the cleanup of releases. Section 13 and 15 provide information regarding certain local or national requirements.

SECTION SEVEN – HANDLING AND STORAGE

TECHNICAL MEASURES: See Engineering Controls under Section 8.

VENTILATION: Use local exhaust ventilation only in the area equipped with explosion proof exhaust ventilation.

PRECAUTION FOR SAFE HANDLING: Do not breathe vapors. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Keep containers tightly closed. Store away from heat and source of ignition. Avoid static discharge near the storage. Avoid spills. Take caution to minimize the release of the product into the environment.

CONDITIONS FOR SAFE STORAGE: Store in original tightly closed (labeled) containers, at room temperature. Store in a well ventilated place, away from heat and sources of static discharge and ignition. Store in accordance with the particular national regulations.

OTHER INFORMATION: Do not store the product with the following product types: Flammable gases Flammable solids Self-heating substances and mixtures Explosives Organic peroxides Strong oxidizing agents Pyrophoric liquids and solids

SECTION EIGHT – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES: Exposure guidelines are not relevant when product is used as intended in a household setting.
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Agency and value (Control parameters / Permissible concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>NIOSH REL TWA: 1000 ppm / 1900 mg/m³; OSHA Z-1 TWA: 1000 ppm / 1900 mg/m³; ACGIH STEL: 1000 ppm</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>ACGIH TWA: 200 ppm; ACGIH STEL: 400 ppm; NIOSH REL TWA: 400 ppm / 980 mg/m³; NIOSH REL ST 500 ppm / 1225 mg/m³; OSHA Z-1 TWA: 400 ppm / 980 mg/m³</td>
</tr>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>OSHA PEL TWA: 15 mg/m³; ACGIH TLV TWA: 10 mg/m³</td>
</tr>
</tbody>
</table>

**LEGEND**

OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limits  
TWA: Time Weighted Average  
NOISH: National Institute for Occupational Safety and Health  
IDLH: Immediately Dangerous to Life or Health  
ACGIH: American Conference of Governmental Industrial Hygienists  
TLV: Threshold Limit Value  
STEL: Short-term Exposure Limit  
REL: Recommended Exposure Limit

**ENGINEERING CONTROLS:**  
Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation and minimize the exposure concentrations at the workplace.

**INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:**  
Maintain vapor exposures below the recommended limits using general and local exhaust ventilation. If the vapor concentration is above the recommended limits or unknown, use appropriate respiratory protection. Use a positive air pressure supplied respirator if air purifying respirators may not provide adequate protection. Use flame retardant gloves for hand protection. Breakthrough time is not determined for the product. Hence change gloves often. Wear safety goggles for eye protection and flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

**GENERAL HYGIENE CONSIDERATIONS:**  
Handle in accordance with good industrial hygiene and safety practice.

---

**SECTION NINE – PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:**  
Liquid.

**APPEARANCE:**  
Clear.

**COLOR:**  
Colorless.

**ODOR:**  
Characteristic.
ODOR THRESHOLD: No information available.

pH: 4.0 – 8.5

MELTING POINT/ FREEZING POINT: No information available.

BOILING POINT: (Ethyl Alcohol) 173.3 °F

FLASH POINT: See Section 5.

EVAPORATION RATE: No information available.

FLAMABILITY (SOLID, GLAS): No information available.

UPPER FLAMABILITY LIMIT: 3.3 (Volume % in air).

LOWER FLAMABILITY: 19.0 (Volume % in air).

VAPOR PRESSURE: No information available.

VAPOR DENSITY: No information available.

WATER SOLUBILITY: No information available.

SOLUBILITY IN OTHER SOLVENTS: No information available.

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: The substance or mixture is not classified as oxidizing.

SOFTENING POINT: No information available.

MOLECULAR WEIGHT: No information available.

VOC CONTENT (%): No information available.

DENSITY: No information available.

BULK DENSITY: No information available.

SECTION TEN – STABILITY AND REACTIVITY

REACTIVITY: None under normal use conditions.

CHEMICAL STABILITY: Stable at room temperature.

POSSIBILITY OF HAZARDOUS REACTION: None under normal conditions.
### CONDITIONS TO AVOID:
None under normal conditions. Avoid excessive heat or sources of ignition.

### INCOMPATIBLE MATERIALS:
None under normal conditions. This product reacts with strong acid, strong bases and oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS:
None under normal conditions. Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

### SECTION ELEVEN – TOXICOLOGICAL INFORMATION

#### INFORMATION ON LIKELY ROUTES OF EXPOSURE

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>INGESTION</td>
<td>No known effect.</td>
</tr>
<tr>
<td>INHALATION</td>
<td>No known effect.</td>
</tr>
<tr>
<td>SKIN CONTACT</td>
<td>Slight skin irritation.</td>
</tr>
<tr>
<td>EYE CONTACT</td>
<td>Slight eye irritation.</td>
</tr>
</tbody>
</table>

#### DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE ON HUMANS

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN CORROSION / IRRITATION</td>
<td>Irritates skin.</td>
</tr>
<tr>
<td>SERIOUS EYE DAMAGE / EYE IRRITATION</td>
<td>Irritates eyes.</td>
</tr>
<tr>
<td>IRRITATION</td>
<td>No known effect.</td>
</tr>
<tr>
<td>CORROSIVITY</td>
<td>No known effect.</td>
</tr>
<tr>
<td>SENSITIZATION</td>
<td>No known effect.</td>
</tr>
<tr>
<td>GERM CELL MUTAGENICITY</td>
<td>No known effect.</td>
</tr>
<tr>
<td>CARCINOGENICITY</td>
<td>No known effect.</td>
</tr>
</tbody>
</table>

#### NUMERICAL MEASURE OF TOXICITY:
The ingredients in the product is not classified as a human carcinogen by IARC (International Agency for Research on Cancer).

### REPRODUCTIVE TOXICITY:
No known effect.

### DEVELOPMENT TOXICITY:
No known effect.

### TERATOGENICITY:
No known effect.

### TARGET ORGAN EFFECTS:
No known effect.

### NEUROLOGICAL EFFECTS:
No known effect.

### OTHER ADVERSE EFFECTS:
No known effect.
ASPIRATION HAZARD: No known effect.

FURTHER INFORMATION: When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

SECTION TWELVE – ECOLOGICAL INFORMATION

This product is not considered as environmentally hazardous. However, this does not exclude the possibility that larger or frequent spills can have a harmful or damaging effect on the environment.

ECOTOXICITY: Available upon request.

PERSISTENCE AND DEGRADABILITY: Available upon request.

BIOACCUMULATION: Available upon request.

MOBILITY: Available upon request.

OTHER ADVERSE EFFECTS: Available upon request.

SECTION THIRTEEN – DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTES: Disposal should be in accordance with applicable regional, national and local laws and regulations. Empty containers should be taken to an approved waste handling site for recycling and disposal. Do not burn or use cutting torch on the empty container.

SECTION FOURTEEN – TRANSPORT INFORMATION

DOT
UN/ID#: UN 1987
PROPER SHIPPING NAME: Alcohols, n.o.s. ethanol, menthanol
HAZARD CLASS: Flammable and combustible liquid 49 CFR 173.120, Class 3.

HAZAR LABELS: 
PACKAGING GROUP: III – Minor Danger
SPECIAL PROVISIONS
PACKAGING EXCEPTIONS (49 CFR 173.xxx): 4B: 150
PACKAGING NON BULK (49 CFR 173.xxx): 203
PACKAGING BULK (49 CFR 173.xxxx): 242
PACKAGING INSTRUCTIONS
PASSENGER AIRCRAFT/RAIL (49 CFR 173.27) 60 L
CARGO AIRCRAFT ONLY (49 CFR 175.75) 220 L
VESSEL STOWAGE LOCATION: A – the material may be stowed “on deck” “or under deck” on a cargo vessel and on a passenger vessel.

IATA-DGR
UN/ID#: UN 1987
PROPER SHIPPING
NAME: Alcohol, n.o.s.  
Ethanol, Propan-2-ol  
HAZARD CLASS: Class 3  
PACKAGING GROUP: III  
HAZAR LABELS:  
LABELS: Flammable Liquid  
PACKAGING INSTRUCTION  
(CARGO AIRCRAFT): 366  
(PASSENGER AIRCRAFT): 355  

SECTION FIFTEEN – REGULATORY INFORMATION  

INTERNATIONAL INVENTORIES  
TSCA: Listed.  
DSL/NDSL: Listed.  
EINECS/ELINCS: Listed.  
ENCS: Listed.  
IECSC: Listed.  
KECL: Listed.  
PICCS: Listed.  
AICS: Listed.  

LEGEND  
TSCS: United States Toxic Substance Control Act Section 8(b) Inventory  
DSL/NDSL: Canadian Domestic Substance List/Non-Domestic Substances List  
EINECS/ELINCS: European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS: Japan Existing and New Chemical Substances  
IECSC: China Inventory of Existing Chemical Substances  
KECL: Korean Existing and Evaluated Chemical Substances  
PICCS: Philippines Inventory of Chemicals and Chemical Substances  
AICS: Australian Inventory of Chemical Substances  

US FEDERAL REGULATIONS  
TSCA SECTION 12(B) EXPORT NOTIFICATION  
CERCLA HAZARDOUS SUBSTANCE LIST  
(40 CFR 302.4): Not listed.  
SARA 304 EMERGENCY RELEASE NOTIFICATION: Not regulated.  

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) HAZARD CATEGORIES  
IMMEDIATE HAZARD: Yes.  
DELAYED HAZARD: Yes.  
FIRE HAZARD: Yes.  
PRESSURE HAZARD: No.  
REACTIVITY HAZARD: No.
SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: Not listed.

SARA 311/312 HAZARDOUS CHEMICAL: No.

SARA 313 (TRI REPORTING): The following components are subject to reporting levels established by SARA Title III, Section 313:
Propan-2-ol 67-63-0 3.4086%

US STATE REGULATIONS

NEW JERSEY WORKER AND COMMUNITY RTK HAZARDOUS SUBSTANCE:
Ethanol 64-17-5 50-70%
Water 7732-18-5 30-50%
Propan-2-ol 67-63-0 1-5%

PENNSYLVANIA RTK - HAZARDOUS SUBSTANCES:
Ethanol 64-17-5 50-70%
Water 7732-18-5 30-50%
Propan-2-ol 67-63-0 1-5%

CALIFORNIA PROPOSITION 65: This product is not subject to warning labeling.

SECTION SISTEEN – OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

ISSUE DATE: April 23, 2020
PREPARATION DATE: April 23, 2020
DISCLAIMER: While SmartScience Laboratories, Inc. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which SmartScience Laboratories, Inc. assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user in accordance with applicable Federal, State and local laws and regulations.