

Safety Data Sheet

Revision Date: March 2, 2020

Complies with 29 CFR 1910.1200 (HCS) GHS

Section 1: Product & Company Identification

- 1.1 Product Identifiers:
- | | | | |
|---------------|--|------------------|--|
| Product Name: | Array Foaming Hand Sanitizer (Alcohol) | | |
| Product Size: | Catalog Number: | Package: | |
| 1000 ml | 45500 | dispenser refill | |
- 1.2 Relevant Identified Uses:
Identified Uses: Hand Sanitizer
- 1.3 Details of the Supplier of the Safety Data Sheet:
- | | |
|-------------------|--|
| Company: | CellEra, LLC |
| Address: | 1045 Reed Road, Unit C
Monroe, OH 45050 USA |
| Telephone Number: | 513-539-1500 |
| Fax Number: | 513-539-1501 |

Section 2: Hazards Identification

- 2.1 Classification of the Substance or Mixture:
- | | | |
|----------------------|-------------------|--|
| GHS Classifications: | Flammable Liquid: | Category 3 (flammable liquid & vapor) |
| | Eye Irritation: | Category 2B (eye irritant, no knowledge of damage) |
- 2.2 GHS Label Elements, including Precautionary Statements:
Hazard Pictogram:



- Signal Word: Warning
- Hazard Statements: Flammable liquid and vapor.
Causes eye irritation.
- Precautionary Statements: **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
If eye irritation continues: Get medical advice/attention.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:
Store in a well-ventilated place. Keep cool.
Disposal:
Dispose of contents/container to an approved waste disposal plant.

- 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:
See Section 5: Fire-Fighting Measures

Section 3: Composition/Information on Ingredients

- | | | | | |
|----------------------------|------------|-----------|------------|----------|
| 3.1 Hazardous ingredients: | CAS#/Codes | OSHA PEL: | ACGIH TLV: | % Range: |
| Ethyl Alcohol | 64-17-5 | 1000 ppm | 1000 ppm | 72 |
- Other ingredients with notification requirements: None

Section 4: First Aid Measures

- 4.1 Description of First Aid Measures
- If inhaled: No adverse effects expected. Remove to fresh air.
In case of skin contact: This product is designed for skin contact and no adverse effects expected.
In case of eye contact: Do not rub eyes. Flush eyes thoroughly with water. If irritation persists, contact a physician.
If swallowed: Abnormal entry route & may cause upset stomach, nausea, or diarrhea. Do not induce vomiting. Contact physician or poison control center.
- 4.2 Most important symptoms and effects, both acute & delayed
Refer to Section 11: Toxicological Information
- 4.3 Indication of any immediate medical attention and special treatment needed
No data available.

Section 5: Fire-Fighting Measures

- 5.1 Extinguishing Media
Carbon Dioxide, dry chemical powder or foam
- 5.2 Special Hazards arising from the substance or mixture

None known.

- 5.3 Advice for fire-fighters
CO₂ may be formed during combustion. Wear self-contained breathing apparatus for fire-fighting if necessary.
- 5.4 Further information
See Section 9, Physical & Chemical Properties, re flammability.
If product is heated, vapor may be flammable. It also may react vigorously with oxidizing materials.

Section 6: Accidental Release Measures

- 6.1 Personal precautions, protective equipment & emergency procedures
For personal protection, see Section 8.
- 6.2 Environmental Precautions
None known
- 6.3 Methods and Materials for Containment and Cleaning Up
Dike to prevent spreading. Shovel into leakproof container. Caution: Will cause slippery surfaces.
- 6.4 Reference to other sections
For disposal, see Section 13.

Section 7: Handling and Storage

- 7.1 Precautions for Safe Handling
Avoid contact with eyes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from fire, sparks and heated surfaces. Wash hands thoroughly after handling. Use only with adequate ventilation.
For precautionary statements, see Section 2.2.
- 7.2 Conditions for Safe Storage, including any incompatibilities
Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of the reach of children. Keep container tightly closed. Store in suitable labeled containers.
Storage temperature: 0 degrees C to 45 degrees C.

Section 8: Exposure Controls/Personal Protection

- 8.1 Control Parameters
Components with workplace control parameters:
See Section 3 for TLV's.
- 8.2 Exposure Controls
Appropriate Engineering Controls:
See Section 3 for PEL. Use general institutional hygiene practice.
- 8.3 Personal Protective Equipment
Eye/Face Protection: No PPE's required.
Skin Protection: Handle with gloves using established institutional practice.
Body Protection: No PPE's required.
Respiratory Protection: No PPE's required.
Control of Environmental Exposure: Normal usage may enter drains. Large quantities should be handled by licensed disposal company.

Section 9: Physical and Chemical Properties

- 9.1 Information on basic physical & chemical properties:
- | | |
|---------------------------|-----------------------------|
| Appearance | Form: clear liquid |
| Odor | Characteristic alcohol odor |
| Odor Threshold | no data available |
| pH | 8.3 typical |
| Melting Point | n/a |
| Freezing Point | not determined |
| Boiling Point | 176° F |
| Flash Point | 73 F or 23 C |
| Evaporation Rate | >1 |
| Flammability | flammable |
| Explosion Limits | n/a |
| Vapor Pressure | 40 mm hg at 77F or 25 C |
| Vapor Density | >1 |
| Density | 0.894 gm/cm ³ |
| Water Solubility | 97.5% soluble |
| Partition Coefficient | no data available |
| Auto-ignition Temperature | n/a |
| Decomposition Temp. | n/a |
| Viscosity | no data available |
| Explosive Properties | n/a |
| Oxidizing Properties | n/a |
- 9.1 Other Safety Information
No data available

Section 10: Stability & Reactivity

- 10.1 Reactivity: No data available.
- 10.2 Chemical Stability: Stable under recommended storage conditions.
- 10.3 Possibility of Hazardous Reactions: No data available.

- 10.4 Conditions to Avoid: No data available.
10.5 Incompatible Materials: No data available.
10.6 Hazardous Decomposition Products: No data available.
In the event of fire, see Section 5.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects:

Acute toxicity: No acute or chronic toxic effects expected when used according to directions.
Inhalation: No data available
Dermal: No acute or chronic toxic effects expected.
Skin Corrosion/Irritation: No acute or chronic toxic effects expected.
Serious Eye Damage/Eye Irritation: No data available.
Respiratory or Skin Sensitization: No data available.
Germ Cell Mutagenicity: No data available.
Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive Toxicity: No data available.
Specific Target Organ Toxicity--single exposure: No data available.
Specific Target Organ Toxicity--repeated exposure: No data available.
Aspiration Hazard: No data available.
Additional Information: RTECS not available.

Section 12: Ecological Information

- 12.1 Toxicity: No data available.
12.2 Persistence & Degradability: No data available.
12.3 Bioaccumulative Potential: No data available.
12.4 Mobility in Soil: No data available.
12.5 Results of PBT and vPvB Assessment: PBT/vPvB assessment not available as chemical safety assessment not required.
12.6 Other adverse effects: No data available.

Section 13: Disposal Considerations

13.1 Waste Treatment Methods:

The product should not be allowed to enter drains, water courses or the soil. When possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

13.2 Other disposal considerations:

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not reuse empty containers.

13.3 RCRA: D001 (Ignitable)

Section 14: Transport Information

DOT (US): Class 3 hazard; Class 2 packing group
IMDG: n/a
IATA: n/a

Section 15: Regulatory Information

REACH No.: Not available. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisioned for a later deadline.
SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards: No SARA hazards.
Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components: No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right to Know Components: No components are subject to the New Jersey Right to Know Act.
California Prop 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

HMIS Ratings:

Health	1
Flammability	3
Physical Hazard	0
Personal Protection	0

NFPA Ratings:

Flammability	3
Health	1

Instability/Reactivity	0
Special Notice	0

Addendum: Abbreviations & Acronyms

n/a: No applicable information found or available.
ACGIH: American Conference of Governmental Industrial Hygienists
CAS #: Chemical Abstracts Service Number
CFR: Code of Federal Regulations
DOT: Department of Transportation
FDA: Food & Drug Administration
GHS: Globally Harmonized System
HCS: Hazard Communications Standard
HMIS: Hazardous Materials Identification System
HNOC: Hazards Not Otherwise Classified
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
MSDS: Manufacturer's Safety Data Sheet (obsolete)
NFPA: National Fire Protection Association
NTP: National Toxicity Program
OSHA: Occupational Safety and Health Administration
PBT: Persistent Bioaccumulative and/or Toxic Chemicals
PEL: Permissible Exposure Limit
PPE: Personal Protection Equipment
RCRA: Resource Conservation & Recovery Act
REACH: Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (EU)
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet
TAMC: Total Aerobic Microbial Count
TLCP: Toxic Characteristic Leaching Procedure
TLV: Threshold Limit Value
TYMC: Total Combined Yeast & Mold Count
vPvB: (very) Accumulative, (very) Bioaccumulative and/or Toxic Chemicals

The information and recommendations presented in this SDS are based on sources believed to be accurate. CellEra, LLC assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the information for their particular purposes.