Apex Hand Sanitizer
Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
Date of issue: 05/12/2020       Revision date: n/a       Printed: 05/14/2020       Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name : Apex Hand Sanitizer
Product code : ETOH

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Hand sanitizer
Use advised against : None identified

1.3. Details of the supplier of the safety data sheet
Apex Offense
10061 Amberwood Road
Fort Myers, FL 33913
Tel: 855-769-3393

1.4. Emergency telephone number
Emergency number : 1-800-424-9300 (within the United States and Canada)
FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification
Flammable Liquid, Category 2
Eye Damage/Irritation, Category 2B

2.2. Label elements
Labelling
Hazard pictograms : 

Signal word : Danger
Hazard statements : Highly flammable liquid and vapour
Causes eye irritation
Precautionary statements : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Wash hands and exposed skin thoroughly after handling.
Wear protective gloves/eye protection.
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.
In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents in accordance with local, state or national legislation.
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2.3. Other hazards
Other hazards which do not result in: Static accumulating flammable liquid. Spills of this product present a serious slipping hazard.

2.4. Unknown acute toxicity
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier (CAS No.)</th>
<th>% w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol ethyl alcohol</td>
<td>64-17-5</td>
<td>60 - 70</td>
</tr>
<tr>
<td>Hamamelis virginiana, ext.</td>
<td>84696-19-5</td>
<td>3 - 5</td>
</tr>
</tbody>
</table>

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers) in addition to oral/ inhalation acute toxicant in category 1 and 2. None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
First-aid measures after skin contact: Wash skin with plenty of water.
First-aid measures after eye contact: 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.
First-aid measures after ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician

4.2. Most important symptoms and effects, both acute and delayed
Contact to eyes may cause eye irritation. Symptoms may include stinging, watering, redness, or swelling.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Water or foam may cause frothing of materials heated above 212°F / 100°C.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Flammable liquid and vapour.
Explosion hazard: May form flammable/explosive vapour-air mixture. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

5.3. Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information: Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Stop leak if safe to do so. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Danger of slipping by leaking/spilling product. Avoid contact with eyes. Avoid breathing mist. Evacuate unnecessary personnel. Equip cleanup crew with proper protection.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect all waste in suitable and labelled containers and dispose according to local legislation. Store away from other materials. Ensure all national/local regulations are observed.

6.4. Reference to other sections
Refer to section 8 and 13 for additional information on personal protection equipment and waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling: Obtain special instructions before use. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/… equipment.
Storage conditions: Keep only in the original container in a cool well-ventilated place. Keep container closed when not in use. Keep away from incompatible materials. Keep away from sources of heat. Store locked up.
Incompatible condition: Direct sunlight. Heat sources.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol (Ethanol)</td>
<td>64-17-5</td>
<td>1000</td>
<td>1900</td>
<td></td>
<td></td>
<td>OSHA PEL Z-1</td>
</tr>
<tr>
<td>Ethyl alcohol; ethanol</td>
<td>64-17-5</td>
<td>1000</td>
<td>1900</td>
<td></td>
<td></td>
<td>OSHA PEL</td>
</tr>
<tr>
<td>Ethyl alcohol (Ethanol)</td>
<td>64-17-5</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td>NIOSH REL Z-1</td>
</tr>
<tr>
<td>Ethanol (Ethyl alcohol)</td>
<td>64-17-5</td>
<td></td>
<td>1000</td>
<td>1880</td>
<td></td>
<td>ACGIH TLV</td>
</tr>
</tbody>
</table>

Remark: Notes
OSHA PEL Z-1 Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table
OSHA PEL Occupational Safety and Health (OSHA) Permissible Exposure Limits (PELs).
NIOSH REL Z-1 National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-1: Up to 10-hour time weighted average (TWA) during a 40-hour work week
ACGIH TLV The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®) 2018

8.2. Exposure controls
Appropriate engineering controls: Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection.
Personal protective equipment: Handle in accordance with good industrial hygiene and safety practices. Avoid all unnecessary exposure. For certain operations, additional Personal Protection Equipment (PPE) may be required.
Hand protection: Wear protective clothing and gloves: Impervious gloves.
Eye protection: Wear eye protection with side protection.
Respiratory protection: In case of insufficient ventilation, a suitable mask with filter type A may be appropriate.
Other information: Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear gel</td>
</tr>
<tr>
<td>Color</td>
<td>Green-blue tint</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol, Tea tree</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 – 8.5</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>ca179.6 °F (82 °C) - Estimated</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;68 °F - &lt;73.4 °F (20 - 23 °C) - Estimated</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.875 (water=1)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>3,500 - 23,000 mm²/s</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
None anticipated.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No hazardous reactions known if used for its intended purpose.

10.4. Conditions to avoid
Avoid friction, sparks, or other means of ignition

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Ingestion</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity - Skin Contact</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
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Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Self classification: Causes eye irritation.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity
Ecology – Aquatic invertebrates : Low toxicity to invertebrates.
Toxicity - Fish : Low toxicity to fish.
Toxicity - Algae : Low toxicity to algae.
Toxicity - Sediment Compartment : Not classified.
Toxicity - Terrestrial Compartment : Not classified.

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on ozone layer : No additional information available
Effect on the global warming : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations : Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimor or incinerator. Dispose at suitable refuse site.

Ecology - waste materials : Avoid release to the environment.
According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

## SECTION 14: Transport information

### 14.1 UN number

| UN No. | 1987 |

### 14.2 UN proper shipping name

| UN proper shipping name | ALCOHOLS, N.O.S. (Ethanol) |

### 14.3 Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR/RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR/RID Class</td>
</tr>
<tr>
<td>ADR Classification Code</td>
</tr>
<tr>
<td>Special Provisions</td>
</tr>
<tr>
<td>Limited Quantities</td>
</tr>
<tr>
<td>Excepted Quantities</td>
</tr>
<tr>
<td>Emergency Action Code</td>
</tr>
<tr>
<td>Mixed Packing Instructions for Packages</td>
</tr>
<tr>
<td>Special Packing Provisions for Packages</td>
</tr>
<tr>
<td>Mixed Packing Instructions for Portable Tanks</td>
</tr>
<tr>
<td>Special Provisions for Portable Tanks</td>
</tr>
<tr>
<td>Tank Code for Tanks</td>
</tr>
<tr>
<td>Special Provisions for Tanks</td>
</tr>
<tr>
<td>Vehicle for Tank Carriage</td>
</tr>
<tr>
<td>ADR Transport Category</td>
</tr>
<tr>
<td>Tunnel Restriction Code</td>
</tr>
<tr>
<td>Special Provisions for Carriage - Packages</td>
</tr>
<tr>
<td>Special Provisions for Carriage - Bulk</td>
</tr>
<tr>
<td>Special Provisions for Carriage - Loading, Unloading and Handling</td>
</tr>
<tr>
<td>Special Provisions for Carriage - Operation</td>
</tr>
<tr>
<td>ADR HIN</td>
</tr>
<tr>
<td>IMDG</td>
</tr>
<tr>
<td>IMDG Class</td>
</tr>
<tr>
<td>Special Provisions</td>
</tr>
<tr>
<td>Limited Quantities</td>
</tr>
<tr>
<td>Excepted Quantities</td>
</tr>
<tr>
<td>Mixed Packing Instructions for Packages</td>
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<tr>
<td>Special Packing Provisions for Packages</td>
</tr>
<tr>
<td>Packing Instructions for Portable Tanks</td>
</tr>
<tr>
<td>Special Provisions for Portable Tanks</td>
</tr>
<tr>
<td>IMDG EMS</td>
</tr>
<tr>
<td>Stowage and Handling</td>
</tr>
<tr>
<td>Segregation</td>
</tr>
<tr>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>ICAO/IATA</td>
</tr>
<tr>
<td>IATA Proper Shipping Name</td>
</tr>
<tr>
<td>Excepted Quantities</td>
</tr>
<tr>
<td>Passenger and Cargo Aircraft Limited Quantities Packing Instructions</td>
</tr>
<tr>
<td>Passenger and Cargo Aircraft Limited Quantities Max net Qty</td>
</tr>
<tr>
<td>Passenger and Cargo Aircraft Packing Instructions</td>
</tr>
<tr>
<td>Passenger and Cargo Aircraft Max net Qty</td>
</tr>
<tr>
<td>Passenger and Cargo Aircraft Max net Qty</td>
</tr>
</tbody>
</table>
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Cargo Aircraft Packing Instructions 366
Cargo Aircraft Max net Qty 220L
Special Provisions A3, A180
Emergency Response Guidebook (ERG) 3L
Code
Labels

14.4 Packing group
Packing group II

14.5 Environmental hazards
Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user
Special precautions for user Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
No information available

SECTION 15: Regulatory information

15.1 US Federal Regulations
Toxic and hazardous substances (29 CFR 1910; Subpart Z) Listed : 64-17-5
National emission standards for hazardous air pollutants (40 CFR 61.01) Not listed
SARA Title III Section 313 Not listed
TSCA (Toxic Substance Control Act) Listed : 64-17-5 (Active), 7732-18-5 (Active)
CAA 602 - Ozone Depleting Substances (ODS) Not listed

15.2 US State Regulations
State Right to Know Lists
Proposition 65 (California)
Minnesota Listed : 64-17-5
New Jersey Listed : 64-17-5
Pennsylvania Listed : 64-17-5
Rhode Island Listed : 64-17-5

15.3 Other
OSPAR List of Chemicals for Priority Action Not listed
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives) Not listed
NTP (National Toxicology Program ) Not listed
IARC (International Agency for Research on Cancer ) Listed : 64-17-5

SECTION 16: Other information
Indication of changes : Not applicable
Revision date : Not applicable

Acronyms
ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit

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- **RID**: Regulations concerning the International Carriage of Dangerous Goods by Rail
- **STEL**: Short term exposure limit
- **STOT**: Specific Target Organ Toxicity
- **UN**: United Nations

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.