



Safety Data Sheet  
 Issue Date: 3/18/2020

**Section 1: PRODUCT IDENTIFICATION**

**Product Form:** Mixture  
**Product Name:** C4U Hand Sanitizer  
**General or Generic ID:** .OTC Antimicrobial Hand sanitizer  
**Manufacturer:** Gulf Coast Distillers, 5610 Clinton Drive, Houston, TX 77020.  
**Emergency telephone number:** CHEMTREC - 1-800-424-9300 Toll Free 24 hr emergency phone number

**Section 2: HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture:**  
**GHS-US Classification:** Flammable Liquid – Category 3  
 Eye Irritant – Category 2

**GHS-US Labeling:**



**Hazard Statement:** H225: Highly flammable liquid and vapor  
 H319: Causes serious eye irritation

**Precautionary statements:** P210: Keep away from heat, open flames, sparks. -No smoking.  
 P233: Keep container tightly closed.  
 P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical, lighting, ventilating equipment.  
 P242: Use only non-sparking tools.  
 P243: Take precautionary measures against static discharge.  
 P264: Wash hands, forearms, and exposed areas thoroughly after handling.  
 P280: Wear eye protection, protective gloves, protective clothing.  
 P303+P361+P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P370+P378: In case of fire: Use appropriate media to extinguish.  
 P403+P235: Store in a well-ventilated place. Keep cool.  
 P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Other hazards not contributing to the classification:** Flammable vapors can accumulate in head space of closed systems.  
**Government Warning:**  
**Unknown Acute Toxicity (GHS-US):** Not available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS #	EC #	% (BY WT.)	
Ethyl Alcohol	64-17-5	200-578-6	76-82%	Eye irritant 2A, H319. Flammable liquid 2, H225
Isopropyl Alcohol (2-Propanol)	67-63-0	200-661-7	4%-6%	H225 Flam Liq Cat 2, H319 Eye Irrit Cat 2, H336
Hydrogen Peroxide	7722-84-1	231-791-2	0.125%-0.250%	H315, H318
Glycerol	56-81-5	200-289-5	1.5%-2.5%	Not Classified
Water	7732-18-5	231-791-2	16%-20%	Not Classified

**Section 4: FIRST AID**

**GENERAL GUIDELINE:** Never give anything by mouth to an unconscious person, get medical attention immediately. If medical advice is needed, have product container, label and SDS at hand.

**IF ON SKIN:** Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

**IF IN EYES:** Flush with large amounts of water, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do continue rinsing if eye irritation continues get medical attention.

**IF SWALLOWED:** In case of ingestion, do not induce vomiting without medical advice. Give victim several glasses of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention if necessary.

**IF BREATHED:** If affected, remove individual to fresh air and ventilate suspected area. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

**PRIMARY ROUTE(S) OF ENTRY:** INHALATION, SKIN CONTACT

**Most Important Symptoms and Effects Both Acute and Delayed:**

**General:** Causes serious eye irritation.  
**Inhalation:** No adverse effects expected from normal use. Excessive inhalation may cause nausea, vomiting, and signs of central nervous system depression (headache, dizziness, and drowsiness)



<b>Skin Contact:</b>	No adverse effects expected from normal use. Prolonged and repeated skin exposure may cause defatting, drying and cracking of the skin.
<b>Eye Contact:</b>	Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
<b>Ingestion:</b>	No adverse effects expected from normal use. May cause gastrointestinal discomfort/irritation if swallowed. Ingestion of high concentrations may cause nausea, vomiting, and signs of central nervous system depression (headache, dizziness, and drowsiness)
<b>Chronic Symptoms:</b>	None known.

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### **Section 5: FIRE AND EXPLOSION INFORMATION**

<b>FLASH POINT:</b>	(Tag closed cup) 62.0 °F (17.0 °C) (estimated for ethanol)
<b>EXPLOSIVE LIMIT:</b>	LOWER 3.3% UPPER 19.0% (value for pure anhydrous alcohol).
<b>PROTECTION DURING FIREFIGHTING:</b>	Do not enter fire area without proper protective equipment, including respiratory protection.
<b>EXTINGUISHING MEDIA:</b>	Alcohol-resistant foam or water fog or carbon dioxide or dry chemical. DO NOT USE A HEAVY WATER STREAM. A heavy water stream may spread burning liquid. Water may be ineffective because it may not cool material below its flash point. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	May form toxic materials, carbon dioxide and carbon monoxide, various low molecular weight hydrocarbons, and smoke.
<b>FIREFIGHTING PROCEDURES:</b>	Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
<b>AUTO-IGNITION TEMPERATURE:</b>	The lowest known value is 363°C (685.4°F) (Ethyl alcohol 200 Proof)
<b>SPECIAL FIRE &amp; EXPLOSION HAZARDS:</b>	Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights. Other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Highly flammable liquid and vapor. Explosion Hazard: May form flammable/explosive vapor-air mixture. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

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### **Section 6: ACCIDENTAL RELEASE**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Avoid all eyes and skin contact, and do not breathe vapor and mist.

#### **For Non-Emergency Personnel**

<b>Protective Equipment:</b>	Use appropriate personal protection equipment (PPE).
<b>Emergency Procedures:</b>	Evacuate unnecessary personnel.

#### **For Emergency Personnel**

<b>Protective Equipment:</b>	Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).
<b>Emergency Procedures:</b>	Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

#### **Environmental Precautions**

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

#### **Methods and Material for Containment and Cleaning Up**

<b>For Containment:</b>	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
<b>Small Spill:</b>	Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.
<b>Large Spill:</b>	Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source, dike area or spill to prevent spreading. Pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs notify proper authorities as required that a spill has occurred.

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### **Section 7: HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

#### **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, lighting, ventilating equipment.

**Storage Conditions:** Store in a dry, cool, and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Keep in fireproof place.

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### **Section 8: EXPOSURE CONTROL, PERSONAL PROTECTIVE EQUIPMENT**

#### **EFFECTS OF ACUTE OVEREXPOSURE:**

**EYES:** Can cause moderate irritation, redness, tearing.



**SKIN:** Can cause slight irritation.  
**BREATHING:** Excessive inhalation of vapors can cause nasal and respiratory irritation.  
**SWALLOWING:** Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.  
**EFFECTS OF CHRONIC OVEREXPOSURE:** Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: liver abnormalities. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: liver abnormalities, eye damage. Can cause dermatitis of the skin on prolonged or repeated exposure.  
**RESPIRATORY PROTECTION:** If workplace exposure limit(s) of product or any component is exceeded, (section II) a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.  
**VENTILATION:** Provide sufficient mechanical or general ventilation to maintain exposure below TLV(s).  
**PROTECTIVE GLOVES:** Wear chemically resistant gloves such as neoprene.  
**EYE PROTECTION:** Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses (consult your safety equipment supplier). Eye wash stations should be available in the immediate vicinity of any potential exposure.  
**OTHER PROTECTIVE EQUIPMENT:** To prevent repeated or prolonged skin contact, wear impervious clothing boots. Proper grounding procedures should be in place to avoid static electricity.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state and appearance:** Liquid. Clear colorless fluid gel.  
**Odor:** Characteristic. Alcohol like. Mild to strong.  
**Taste:** Burning. Pungent.  
**Molecular Weight:** Not applicable.  
**Color:** Clear.  
**pH (1% soln/water):** 6.0 – 7.5.  
**Auto ignition temperature:** Not available  
**Decomposition temperature:** Not available  
**Flammability (solid, gas):** Not available  
**Lower flammable limit:** 3.3% (For ethanol)  
**Upper flammable limit:** 19% (For ethanol)  
**Boiling Point:** The lowest known value is 78.5°C (173.3°F) (Ethyl alcohol 200 Proof). Weighted average: 79.58°C (175.2°F)  
**Melting Point:** May start to solidify at -114.1°C (-173.4°F) based on data for: Ethyl alcohol 200 Proof.  
**Critical Temperature:** The lowest known value is 243°C (469.4°F) (Ethyl alcohol 200 Proof).  
**Specific Gravity:** Weighted average: 0.8 at 16°C (Water = 1)  
**Vapor Pressure:** The highest known value is 5.7 kPa (@ 20°C) (Ethyl alcohol 200 Proof). Weighted average: 5.53 kPa (@ 20°C)  
**Vapor Density:** The highest known value is 1.59 (Air = 1) (Ethyl alcohol 200 Proof). Weighted average: 1.54 (Air = 1)  
**Viscosity:** Not available  
**Volatility:** Not available.  
**Water/Oil Dist. Coeff.:** Not available.  
**Ionicity (in Water):** Not available.  
**Solubility:** Easily soluble in cold water, hot water, methanol, diethyl ether. Soluble in acetone.  
**Explosion data (mechanical impact):** Not expected to present an explosion hazard due to mechanical impact.  
**Explosion data (static discharge):** Static discharge could act as ignition source.  
**Reactivity:** 0

**Section 10: STABILITY AND REACTIVITY**

**Stability:** The product is stable at standard temperature and pressure.  
**Instability Temperature:** Not available.  
**Conditions of Instability:** Incompatible materials, heat, sources of ignition. Extremely high or low temperatures.  
**Incompatibility with various substances:** Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.  
**Corrosivity:** Non-corrosive in presence of glass

**Section 11: TOXICOLOGICAL INFORMATION**

**Information on Toxicological Effects**  
**Acute toxicity:** Not classified  
**LD50 and LC50 Data:**  
**LC50 Inhalation Rat:** 124.7 mg/l/4h  
 IN OSHA Hazard Communication Carcinogen List.  
**Skin Corrosion/Irritation:** Not classified  
**Serious Eye Damage/Irritation:** Causes serious eye irritation.  
**Respiratory or Skin Sensitization:** Not classified  
**Germ Cell Mutagenicity:** Not classified  
**Teratogenicity:** Not classified  
**Carcinogenicity:** Not classified  
**Specific Target Organ Toxicity (Repeated Exposure):** Not classified  
**Reproductive Toxicity:** Not classified



**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** High concentrations may cause headache, drowsiness, lassitude, loss of appetite, inability to concentrate, throat irritation.

**Symptoms/Injuries After Skin Contact:** Repeated or prolonged skin contact may cause dermatitis and defatting.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** Ingestion will cause narcotic effects including, but not limited to: sedation, mood alterations, constipation, vomiting, nausea, respiratory depression, pinpoint pupils, and dizziness. Large amounts may cause death.

Chronic exposure may damage nervous system, liver, blood, and kidneys.

**Chronic Symptoms:**

**Information on Toxicological Effects - Ingredient(s)**

LD50 and LC50 Data:

**Ethyl alcohol (64-17-5)**

**LD50 Oral Rat:** 10470 mg/kg

**LD50 Dermal Rat:** 20 ml/kg

**LC50 Inhalation Rat:** 124.7 mg/l/4h

**OSHA Hazard Communication Carcinogen List:** In OSHA Hazard Communication Carcinogen list.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Toxicity - Ethyl alcohol (64-17-5)**

LC50 Fish 1: 12.0 - 16.0 ml/l (Exposure time: 96 h - Species: *Oncorhynchus mykiss* [static])

EC50 Daphnia 1: 9268 - 14221 mg/l (Exposure time: 48 h - Species: *Daphnia magna*)

LC 50 Fish 2: > 100 mg/l (Exposure time: 96 h - Species: *Pimephales promelas* [static])

**Persistence and Degradability - Ethyl alcohol (64-17-5)**

Persistence and degradability: Readily biodegradable.

**Bioaccumulative Potential - Ethyl alcohol (64-17-5)**

Log Pow: -0.32

Bioaccumulative Potential: Not likely to bioaccumulate.

Mobility in Soil: No data available

Ecology – Soil: Leaches into groundwater.

## Section 13: WASTE DISPOSAL CONSIDERATIONS

**SMALL SPILL:** Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Dispose of remaining material in accordance with applicable regulations.

**LARGE SPILL:** Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

## Section 14: TRANSPORTATION INFORMATION

	DOT	IATA	IMDG	TDG
Proper shipping name	Consumer Commodity	Consumer Commodity	Consumer Commodity	Consumer Commodity
Hazard Class	3	3	3	3
Identification number	UN1170	UN1170	UN1170	
Label codes	3	3	3	3
Packing Group	II	II	II	II
ERG Number	127			
ERG Code (IATA)		3L		
EmS-No. (Fire)			F-E	
EmS-No. (Spillage)			S-D	
Label				

## Section 15: REGULATORY

**US Federal Regulations**

Hand sanitizer: Listed on the US TSCA (Toxic Substances Control Act) Inventory  
SARA Section 311/312 Hazard Classes: Fire Hazard and Immediate (acute) Health Hazard

Ethyl Alcohol (64-17-5): Listed on the US TSCA (Toxic Substances Control Act) Inventory

Water (7732-18-5): Listed on the US TSCA (Toxic Substances Control Act) Inventory



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**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Revision Date: 12/03/2018

The information accumulated herein is believed to be accurate, but is not warranted to be whether originating with the company or not. Gulf Coast Distillers makes no warranty, express or implied, with respect to such information, and assumes no liability resulting from its use. In no way shall Gulf Coast Distillers be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages even if Gulf Coast Distillers has been advised of the possibility of such damages.

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