

SAFETY DATA SHEET: HAND SANITIZER (hospitality / foodservice use)

Section 1: Identification

Product Name: World Health Organization Hand Sanitizer Formula (Ethanol-based) 1 / 160°

Chemical Name/Synonyms: UN1170

Other Means if Identification: Denatured Ethanol, 80%

Manufactured by: Florida Caribbean Distillers LLC, 425 Recker Highway, Auburndale, FL 33823

For manufacturer information contact phone#: 863-956-1116

Emergency Phone No. CHEMTREC®, 1-800-424-9300, Inside USA

CHEMTREC®, 1-703-741-5970, Outside USA

In an emergency call 911.

If swallowed, get medical help or contact a Poison Control Center right away 1 (800) 222-1222

SDS No. 0671

Date of Preparation: May 15, 2020

This is a personal care product. This SDS contains useful information for the safe handling and proper use of the product **for foodservice and hospitality workplace conditions** as well as unintended exposures as might occur with large spills. For information specific to industrial use, please contact the manufacturer for the appropriate SDS. Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions and standard operating procedures in your place of work. Please refer to and follow all package instructions for safe handling and for intended use to refill reusable dispensers or other containers.

Section 2: Hazard(s) Identification

Hazard Classification: This Material is considered hazardous by the OSHA Hazard Communication **GHS Classification:**

FLAMMABLE LIQUIDS-Category 2 EYE IRRITATION-Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)-Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)-Category 2



Precautionary Statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P273 - Avoid release to the environment.

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.

In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

Precautionary Statements - Storage:

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Description of other hazards:

May be harmful if inhaled. Causes mild skin irritation in excess quantities. May cause drowsiness or dizziness if inhaled.

Composition/information on ingredients						
<u>Mixture</u>						
Chemical Name	Synonym	CAS#	Conc. %			
Ethanol	-	64-17-5	80			
Water	-	7732-18-5	14.259			
Glycerol	-	56-81-5	1.45			
Hydrogen Peroxide 3%	-	7722-84-1	4.17			
Ammonium, benzydiethyl ((2, 6-xylylcarbamoy)methyl)-, benzoate		3734-33-6	0.0006			

Section 4: First-Aid Measures

After excessive skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least then minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

After eye contact: Immediately Flush Eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rise for at least 10 minutes. Get medical attention.

After inhalation: Remove victim to fresh air and keep at rest in position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration of oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

After ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low, so the vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: Risk of ignition. Can ignite if strongly heated. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Explosion data

Sensitivity to mechanical impact: None. **Sensitivity to static discharge:** Yes.

Special protective equipment for fire-fighters

Use extreme caution.

Section 6: Accidental Release Measures

Note: Personal protective equipment is not needed when using this product for personal care or similar consumer use; not when handling single package quantities for use as directed by the package, for refill of approved reusable containers, and following approved workplace operating procedures. Take care to avoid contact with eyes or excessive contact with skin or clothing due to spillage or splashing. Open the package only as directed and handle with caution to avoid accidental release.

Do not eat, drink or smoke when using this product.

Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required based on the quantity of the release. See section 8 for more information. Avoid excessive contact with skin, eyes or clothing. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information: Ventilate the area. Refer to protective measures listed in Sections 7 and 8 in the case of accidental release of a large quantity.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up: Take precautionary measures against static discharges. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Section 7: Handling and Storage

Handling: Personal protective equipment is not needed when using this product for personal care or similar consumer use; not when handling single package quantities for use as directed by the package, for refill of approved reusable containers, and following approved workplace operating procedures. Take care to avoid contact with eyes or excessive contact with skin or clothing due to spillage or splashing. Open the package only as directed and handle with caution to avoid accidental release. Do not eat, drink or smoke when using this product.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Comply with all applicable health and safety regulations, fire, and building codes.

Section 8: Exposure Controls/Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m3	IDLH: 3300 ppm TWA: 1000 ppm
		9,	TWA: 1900 mg/m3

	(vacated) TWA: 1000	
	ppm	
	(vacated) TWA: 1900	
	mg/m3	
Glycerol	- TWA: 15 mg/m3 mist,	-
56-81-5	total	
	particulate	
	TWA: 5 mg/m3 mist,	
	respirable	
	fraction	
	(vacated) TWA: 10	
	mg/m3	
	mist, total particulate	
	(vacated) TWA: 5	
	mg/m3 mist,	
	respirable fraction	

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

In the case of accidental release of a large quantity: use personal protection equipment as needed to avoid contact with eyes, and excessive contact with skin (hands), and clothing. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Basic Physical and Chemical Properties

Appearance Clear Liquid
Odor Alcoholic
Odor Threshold Not Available
pH Not Available

Melting Point / Freezing Point
Initial Boiling Point / Range
Evaporation Rate
Flammability (solid, gas)
Upper/Lower Flammability or

-87 °C (-125 °F) (freezing)
80 °C (68 °F) (Closed Cup)
1.7 (n-butyl acetate = 1)
Not applicable (liquid)
19% (upper); 3.0% (lower)

Explosive Limit

Vapor Pressure 44.6 mm Hg (5.9 kPa) at 20 °C; High.

Vapor Density (air =1) 1.6

Relative Denisty (water = 1) > 0.825 at 25 °C

Soluble in all proportions in water

Auto-ignition Temperature 363 °C Decomposition Temperature Not available

Other Information

Physical State Liquid
Molecular Formula C2H6O
Molecular Weight 46.07

Vapor Pressure at 50 deg C Not available

Bulk density: No information available

Section 10: Stability and Reactivity

Reactivity: None under normal use conditions. **Chemical stability**: Stable under normal conditions.

Possibility of Hazardous reactions: None under normal processing.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: None known based on information supplied.

Hazardous decomposition products: None known based on information supplied.

Section 11: Toxicological Information

Information on toxicological effects Acute toxicity

Product/ingredient	Result	Species	Dose	Exposure
name				
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m3	4 hours
	LD50 Dermal	Rat	>10000 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient	Result	Species	Score	Exposure	Observation
name					
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				Milligrams	
	Eyes - Moderate irritant	Rabbit	-	0.066666667	-
				minutes 100	
				milligrams	
	Eyes - Moderate irritant	Rabbit	-	100	-
				microliters	
	Eyes - Severe irritant	Rabbit	-	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	400	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	_
				Milligrams	
glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	_
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours	_
				500 milligrams	

Respiratory and/or Skin Sensitization

Ethanol is not a skin sensitizer. Ethanol had no effect in the mouse ear sensitization assay (6) and failed to produce sensitization in five different tests using guinea pigs.

MutagenicityNot availableCarcinogenicityNot available.

Classification

Chemical Name	IARC	ACGIH®	NTP	OSHA
ethanol	Group 1	A3		

Reproductive toxicity Not available.
Teratogenicity Not available.
Specific target organ toxicity Not available.

(single exposure)

Specific target organ toxicity Not available.

(repeated exposure)

Aspiration hazard Not available. Information on the likely Not available.

routes of exposure

Potential acute health effects

Eye contact Causes serious eye irritation.

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation.

Ingestion No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation No specific data.

Skin contact Adverse symptoms may include the following: irritation redness **Ingestion**

No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.
Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.
Potential delayed effects Not available.

Potential chronic health

Not available.

Effects

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ l)
W.H.O Hand Sanitizer Formula 1	276023.4	N/A	N/A	N/A	N/A
Ethanol	7000	N/A	N/A	124.7	N/A
Glycerol	12600	N/A	N/A	N/A	N/A

Section 12: Ecological Information

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea
	plants		microorganisms	
Ethanol	=	LC50: 12.0 - 16.0mL/L	-	LC50: 9268 -
64-17-5		(96h, Oncorhynchus		14221mg/L (48h,
		mykiss)		Daphnia magna) EC50:
		LC50: >100mg/L (96h,		=2mg/L (48h, Daphnia
		Pimephales promelas)		magna)
		LC50: 13400 -		
		15100mg/L (96h,		
		Pimephales promelas)		
Glycerol	-	LC50: 51 - 57mL/L (96h,	-	-
56-81-5		Oncorhynchus mykiss)		
Hydrogen peroxide	-	LC50: 18 - 56mg/L (96h,	-	EC50: 18 - 32mg/L
7722-84-1		Lepomis macrochirus)		(48h,
		LC50: =16.4mg/L (96h,		Daphnia magna)
		Pimephales promelas)		
		LC50: 10.0 - 32.0mg/L		
		(96h, Oncorhynchus		
		mykiss)		

Mobility: Will likely be mobile in the environment due to its water solubility.

Biodegradation: Persistence is unlikely based on information available. Soluble in water.

Bioaccumulation: There is no data for this product.

Chemical name	Partition coefficient
Ethanol	-0.32
64-17-5	
Glycerol	-1.76
56-81-5	

Other Adverse Effects: No information available

Section 13: Disposal Considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

Note:

Special precautions for user: Not Applicable

USDOT has issued a temporary relief notice for companies shipping hand sanitizers used for sanitation purposes, for shipment by road within the USA. The policy is at https://www.phmsa.dot.gov/sites/phmsa.dot.gov/files/2020-04/PHMSA%20Hand%20Sanitiz er%20Relief%20Notice.pdf, with additional guidance at

https://www.phmsa.dot.gov/news/phmsa-issues-temporary-relief-companies-transporting-hand-sanitizer-highway

DOT

UN/ID no: UN1170

Proper shipping name: ETHANOL SOLUTIONS

Hazard class: 3
Packing group: ||

Special Provisions: 24, IB2, T4, TP1

DOT Marine Pollutant: NP

Description: UN1170, ETHANOL SOLUTIONS, 3, II

Emergency Response Guide: Number 127

IATA

UN number: UN1170

UN proper shipping name: Ethanol solution

Transport hazard class(es): 3

Packing group: II ERG Code: 3L ERG Code

Special Provisions: A180, A3, A58

Description: UN1170, Ethanol solution, 3, II

<u>IMDG</u>

UN number: UN1170

UN proper shipping name: ETHANOL SOLUTION

Transport hazard class(es): 3

Packing group: II EmS: -No F-E, S-D Marine pollutant: NP Special Provisions: 144

Description: UN1170, ETHANOL SOLUTION, 3, II, (17.5°C C.C.)

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code.

Section 15: Regulatory Information

U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

SARA 302/304

Composition/information on ingredients

composition/information on ingredients						
Name	%	EHS	SARA 30	SARA 302 TPQ		4 RQ
			(lbs)	(gallons)	(lbs)	(gallons)
Hydrogen peroxide	≤0.3	Yes.	1000	106.1	1000	106.1

SARA 304 RQ: 799360.5 lbs / 362909.7 kg [111893.8 gal / 423564 L]

SARA 311/312

Classification FLAMMABLE LIQUIDS - Category 2

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

Composition/information on ingredients

Name		%	Classification			
ethano		≥75 - ≤90	FLAMMABLE LIQUIDS - Category 2			

		SKIN IRRITATION - Category 2 EYE IRRITATION – Category 2A
glycerol	≤3	EYE IRRITATION - Category 2A

State regulations

Massachusetts The following components are listed: ETHYL ALCOHOL; DENATURED

ALCOHOL; GLYCERINE MIST

New York None of the components are listed.

New Jersey The following components are listed: ETHYL ALCOHOL; ALCOHOL;

GLYCERIN; 1,2,3-PROPANETRIOL

Pennsylvania The following components are listed: DENATURED ALCOHOL; ETHANOL;

1,2,3-PROPANETRIOL

California Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable

Section 16: Other Information

NFPA	Health hazards 2	Flammability 3	Instability 0
HMIS	Health hazards 2	Flammability 3	Physical hazards 0

History

SDS Prepared by Florida Caribbean Distillers Inc.

Phone Number 863-956-1116

Date of issue/Date of

Revision 5/14/2020

Date of previous issueNo previous validation

Version

Key to abbreviations ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CCOHS= Canadian Center for Occupational Health and Safety
GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

N/A = Not available

NIOSH= National Institute for Occupational Safety and Health

UN = United Nations

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 a 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