



# Safety Data Sheet

## 1. Material Identification

Product Name: **Hand Sanitizer (80% Ethanol v/v)**

Supplier: Anovotek, LLC  
9075 Patterson Street  
Barnwell, SC 29812

Telephone: 803-300-4705  
Emergency Telephone: CHEMTREC (800-424-9300)

Recommended Use: For external use only! For use as Hand Sanitizer for consumer and occupational use.

## 2. Hazard Identification

### Classification of Substance or mixture

#### Physical Hazards

Flammable Liquid - Category 3

#### Human Health Hazards

Eye Damage/Irritation - Category 2A

### Label Elements

Signal Word: *“Warning”*

Pictograms:



### Hazard Statements

Flammable liquid and vapors

Causes serious eye irritation

### Precautionary Statements

Keep away from heat/sparks/open flames/hot surfaces. Keep cool. No smoking.  
Keep container tightly closed.

## 3. Composition / Information on Ingredients

Substance / Mixture: Mixture

<u>Components</u>	<u>Cas No.</u>	<u>V/V %</u>
Ethanol	64-17-5	80.0



## Safety Data Sheet

### 4. First Aid Measures

IF SWALLOWED:	Rinse mouth. Do NOT induce vomiting. Get medical attention if symptoms occur.
IF ON SKIN:	If irritation occurs, wash with water and soap as a precaution. Get medical attention if symptoms occur.
IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
IF IN EYES:	Symptoms such as stinging, tearing or redness may occur. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until symptoms are no longer present. If symptoms continue, seek medical attention.

### 5. Fire Fighting Measures

#### Extinguishing Media

Suitable Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

Unsuitable Extinguishing Media: Do not use direct water stream. May spread fire.

#### Special hazards arising from the substance or mixture

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon Monoxide. Carbon Dioxide.

#### Special protective equipment and precautions for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.

Cool exposed drums with water spray.

### 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.



## Safety Data Sheet

Emergency Procedures: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area at least 50 meters (150 feet) in all directions. Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

### Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

### Methods and material for containment and cleaning up

Containment/Clean-up Non-sparking tools should be used. Stop leak if can be done without risk.

Measures Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Collect in suitable and properly labeled containers.

## 7. Handling and Storage

### Precautions for Safe Handling

General Handling: Do not get in eyes. Do not swallow. Do not breath vapors or mists. Do not consume food, drink, or tobacco in areas where they may become contaminated by this material. Always wash hands thoroughly with soap and water. Use with adequate ventilation. Use non-sparking tools.

### Conditions for safe storage, including any incompatibilities

Storage: Keep away from open flames/hot surfaces/sparks. Keep cool. Keep container closed when not in use. Avoid conditions of static discharge.

Incompatible Materials or Keep away from strong oxidizers, organic peroxides, flammable solids, pyrophoric liquids, pyrophoric solids, flammable gases.

# Safety Data Sheet



## 8. Exposure Controls/Personal Protection

### Control Parameters

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z1

### Exposure Controls

Engineering  
Measures/Controls:

Local ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

### Personal Protective Equipment:

Respiratory Protection:

Small Quantity: No personal respiratory protective equipment normally required.  
Large Quantity: If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when respiratory irritation and/or discomfort have been experienced. Follow the OSHA respirator regulations found in 29 CFR 1910.134.

Eye Protection:

Small Quantity: No special protective equipment required.  
Large Quantity: Wear protective eyewear (safety glasses with side-shields)

Hand/skin/body  
Protection:

Small Quantity: No special protective equipment required.  
Large Quantity: Wear impervious protective clothing (gloves, aprons, boots, etc).

### General Industrial Hygiene Considerations:

Handle in accordance with good hygiene and safety practices. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash stations should be available close to work areas.



## Safety Data Sheet

### 9. Physical and Chemical Properties

Appearance:	
Physical	Semi-viscous liquid
Color	Clear, colorless
Odor:	Characteristic
Odor Threshold:	No data available
pH: (as – is)	5.0 – 7.0
Melting Point:	No data available
Freezing Point:	No data available
Boiling Point: (760 mmHg)	No data available
Flash Point: (Closed-Cup)	25°C - Literature
Evaporation Rate:	No data available
Flammability: (solid, gas)	No data available
Flammability Limits:	Lower: 19.0 % (Ethanol) Literature Upper: 3.3% (Ethanol) Literature
Vapor Pressure:	No data available
Vapor Density:	No data available
Density :	0.85 – 0.86
Solubility in Water:	Soluble
Partition Coefficient: (n-octanol/water)	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available

### 10. Stability and Reactivity

Reactivity:	No dangerous reaction known under normal conditions
Chemical Stability:	Thermally stable at typical use temperatures
Possibility of hazardous reactions:	Polymerization will not occur
Conditions to avoid:	Heat, Flames and Sparks
Incompatible materials:	Strong oxidizers.
Hazardous Decomposition Products:	Oxides of Carbon



## Safety Data Sheet

### 11. Toxicological Information

#### Route(s) of entry/exposure:

Potential Health Effects:

Eye Contact

Acute (Immediate)

Causes serious eye irritation.

Chronic (Delayed)

No relevant data found

Skin Contact

Acute (Immediate)

No adverse effects expect from normal use. Prolonged contact may cause slight irritation with local redness.

Chronic (Delayed)

No relevant data found

Inhalation

Acute (Immediate)

No adverse effects expect from normal use. Excessive inhalation may cause nausea, vomiting, dizziness, and/or headaches.

Chronic (Delayed)

No relevant data found

Ingestion

Acute (Immediate)

Low toxicity if small amounts swallowed. Larger amounts could cause injury such as gastrointestinal irritation, nausea, and/or vomiting.

Chronic (Delayed)

No relevant data found

Skin Sensitization:

No relevant data found

Target Organ Effects:

No relevant data found

Reproductive Toxicity:

In animal studies, did not interfere with reproduction

Carcinogenicity:

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

Acute Toxicity:

Ingredients:

Ethanol -

Acute oral toxicity:

LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity:

LC50 (Rat): 124.7 mg/l Exposure time: 4 h

Test atmosphere: vapor

Acute Dermal toxicity:

LD50 (Rabbit): 15,800 mg/kg



## Safety Data Sheet

### 12. Ecological Information

#### Toxicity – Based on Ingredients

Fish Acute and Prolonged Toxicity  
96 h LC50 Fish: 11,000 mg/l

Aquatic Invertebrate Acute Toxicity  
No relevant data found

Aquatic Plant Toxicity  
No relevant data found

**Persistence and Degradability** No relevant data found

#### Bioaccumulative Potential

Bioaccumulation: No relevant data found  
Partition Coefficient: No relevant data found  
n-octanol/water

#### Mobility in Soil

Mobility in Soil: No relevant data found  
Partition Coefficient: No relevant data found  
Soil organic carbon/water

### 13. Disposal Considerations

#### Waste Treatment Methods

Product Waste Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.  
Packaging Waste Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 14. Transportation Information

		14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
US DOT	Consumer Commodity, Limited Quantity	Not Regulated				

## Safety Data Sheet



### 15. Regulatory Information

#### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **SARA Section 311/312 (40 CFR 370) Hazard Categories:**

Acute Hazard (Immediate):	Yes
Chronic Hazard (Delayed):	No
Fire Hazard:	Yes
Pressure Hazard:	No
Reactivity Hazard:	No

#### **SARA Section 313 (40 CFR 370):**

To the best of our knowledge, this product does not contain any substance(s) at levels which require reporting under this statute.

#### **California Proposition 65:**

This product contains no listed substances known to the state of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under this statute.

#### **U.S. Toxic Substances Control Act (TSCA):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

#### **U. S. Clean Air Act 1990 (CAA):**

This product does not contain any Hazardous Air Pollutants (HAPs) or Toxic Air Pollutants (TAPs).

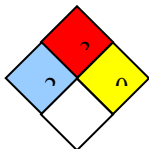


# Safety Data Sheet



## 16. Other Information

### National Fire Protection Association (NFPA) Ratings:



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**Preparation Date:** 04/01/2020

### Disclaimer/Statement of Liability:

This information relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's /responsibility to satisfy himself/herself as to the suitability and completeness of this information for his/her own particular use. We do not accept liability for any loss or damage that may occur from the use of the information nor do we offer warranty against patent infringement.

End of SDS