

# MATERIAL SAFETY DATA SHEET

Date Issued: April 20, 2020

**IN CASE OF A MEDICAL EMERGENCY, PLEASE CONTACT YOUR LOCAL POISON CONTROL**

## SECTION I Identification

### Product identifier

Product Name            **80% Ethyl Alcohol Hand Sanitizer**

### Other means of identification

UN/ID no                            UN1170

### Other information

Greenerways 80% Ethyl Alcohol Hand Sanitizer, per the Food and Drug Administration (FDA) "Policy for Temporary Compounding of Certain Alcohol-Based Hand Sanitizer Products During the Public Health Emergency Immediately in Effect Guidance for Industry <https://www.fda.gov/media/136118/download> is made to these standards and formulation.

The hand sanitizer is compounded using only ingredients acceptable to the FDA's policy and the preparation of the product (percentage in final product formulation) is consistent with the World Health Organization (WHO) recommendations.

The compounder does not add other active or inactive ingredients. Different or additional ingredients may impact the quality and potency of the product. This SDS contains useful information for the safe handling and proper use of the product for industrial workplace conditions as well as unintended exposures as might occur with large spills.

Consumers should refer to the product label for appropriate consumer-specific information about this product when used according to the manufacturer's directions.

### Recommended use of the chemical and restrictions on use

Recommended use                            Hand sanitizer, antiseptic rub

Restrictions on use                            No information available

Manufactured for:                            Emergency Telephone Number:  
**Greenerways LLC**                            **800-777-1603**

Address:  
**688 Stony Hill Rd, Suite 143**  
**Yardley, PA 19067**

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## SECTION II Hazards Identification

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### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### **Danger**

#### **Hazard statements**

Highly flammable liquid and vapor  
Causes serious eye irritation.



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ ventilating/ lighting/ equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear protective gloves/eye protection/face protection

#### **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  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
In case of fire: Use dry chemical, CO<sub>2</sub>, 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

### Other information

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

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**SECTION III Material Composition / Information on Ingredients**

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**Substance/Mixture:** Mixture

**Hazardous ingredients**

Chemical name	CAS No	Weight
Ethanol	64-17-5	80%
Water	7732-18	18.425%
Glycerin	56-81-5	1.45%
Hydrogen Peroxide	7722-84-1	0.125%

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**SECTION IV First Aid Measures**

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**Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Skin contact** None under normal use conditions. If skin irritation occurs: Get medical advice/attention.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

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**SECTION V Fire and Explosion Hazard Data**

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**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Unsuitable extinguishing media** None known based on information supplied.

**Specific hazards arising from the Chemical**

Risk of ignition. 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.

<b>Sensitivity to static discharge</b>	Yes.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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**SECTION VI Accidental Release Measures**

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. 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.

**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. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. 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. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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**SECTION VII Handling and Storage**

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**Precautions for safe handling**

**Advice on safe handling** Use personal protection equipment. 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. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** 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. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

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**SECTION VIII Exposure Controls/ Personal Protection**

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Ingredient	CAS No	Value type (Form of exposure)	Control parameters/ Permissible Concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900mg/m <sup>3</sup>	OSHA Z-1
		STEL	1,000 ppm	ACGIH

### Appropriate engineering controls

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tight sealing safety goggles.

#### Hand protection

Wear suitable gloves.

#### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

#### 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.

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated workclothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

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## **SECTION IX Physical and Chemical Properties**

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### Information on basic physical and chemical properties

#### Appearance

Physical state           Liquid  
Color                    Colorless  
Odor                     Alcohol  
Odor threshold         No data available

pH :                       6.0 -7.5  
Melting point/freezing point :   No data available  
Initial boiling point and boiling range:   70 °C  
Flash point :            25 °C  
Evaporation rate :       No data available  
Flammability (solid, gas) :   Not applicable  
Upper explosion limit :   No data available

<b>Lower explosion limit :</b>	No data available
<b>Vapor pressure :</b>	No data available
<b>Relative vapor density :</b>	No data available
<b>Density :</b>	0.8750 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	
<b>Water solubility :</b>	soluble
<b>Partition coefficient:</b>	No data available
<b>Autoignition temperature :</b>	No data available
<b>Decomposition temperature :</b>	The substance or mixture is not classified self-reactive.
<b>Viscosity</b>	
<b>Viscosity, kinematic :</b>	No data available
<b>Explosive properties :</b>	Not explosive
<b>Oxidizing properties :</b>	The substance or mixture is not classified as oxidizing.

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## **SECTION X Stability and Reactivity**

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<b>Reactivity</b>	None under normal use conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous decomposition products</b>	None known based on information supplied.

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## **SECTION XI Toxicological Information**

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### **Information on likely routes of exposure**

#### **Product Information**

##### **Inhalation**

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May be harmful if inhaled. May cause drowsiness or dizziness.

##### **Eye contact**

Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

##### **Skin contact**

Specific test data for the substance or mixture is not available. Causes mild skin irritation. Prolonged contact may cause redness and irritation.

##### **Ingestion**

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### **Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

#### **Acute toxicity**

Numerical measures of toxicity

Ingredients:

Ethanol: 64-17-5  
 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

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. May cause skin irritation.  
**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.  
**Respiratory or skin sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
64-17-5	A3	Group 1	Known	x

Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)**  
 A3 - Animal Carcinogen  
**IARC (International Agency for Research on Cancer)**  
 Group 1 - Carcinogenic to Humans  
**NTP (National Toxicology Program)**  
 Known - Known Carcinogen  
**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**  
 X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target organ effects** Eyes, Skin, Respiratory system.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

**SECTION XII Ecological Information**

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

**Ingredients:**

**Ethanol:**

**Toxicity to fish**

: LC50 (Pimephales promelas (fathead minnow)); > 1,000 mg/l Exposure time: 96 h

**Toxicity to daphnia and other aquatic invertebrates**

: EC50 (Daphnia magna (Water flea)); > 1,000 mg/l Exposure time: 48 h

**Toxicity to algae**

: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h  
 Method: OECD Test Guideline 201

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

: NOEC (Daphnia magna (Water flea)): 9.6 mg/l  
 Exposure time: 9 d

**Toxicity to bacteria**

: EC50 (Photobacterium phosphoreum): 32.1 mg/l  
 Exposure time: 0.25 h

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

**Component Information**

Chemical Name	Partition coefficient
Ethanol 64-17-5	-0.32

**Other adverse effects** No information available.

**SECTION XIII Disposal Considerations****Waste treatment methods****Waste from residues/unused products**

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable

**SECTION XIV Transport Information****Note:**

This is a consumer product and as such may usually be shipped as ORM-D (other regulated materials for domestic transport only) Consumer Commodity for transport within the United States. While this product is a hazardous material, it may be shipped in a limited quantity that presents a limited hazard during transportation, due to its form, quantity, and packaging. The information listed below is for shipping bulk material.



**International Regulation****UNRTDG**

UN number : UN 1987  
 Proper shipping name : ALCOHOLS, N.O.S.  
 (Ethanol, Propan-2-ol)  
 Class 3  
 Packing group III  
 Labels 3

**IATA-DGR**

UN/ID No. : UN 1987  
 Proper shipping name : Alcohols, n.o.s.  
 (Ethanol, Propan-2-ol)  
 Class 3  
 Packing group III  
 Labels : Flammable Liquids  
 Packing instruction  
 (cargo aircraft) 366  
 Packing instruction  
 (passenger aircraft) 355

**IMDG-Code**

UN number : UN 1987  
 Proper shipping name : ALCOHOLS, N.O.S.  
 (Ethanol, Propan-2-ol)  
 Class 3  
 Packing group III  
 Labels 3  
 EmS Code : F-E, S-D  
 Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

UN/ID/NA number : UN 1987  
 Proper shipping name : ALCOHOLS, N.O.S.  
 Class 3  
 Packing group III  
 Labels : FLAMMABLE LIQUID  
 ERG Code 127

**SECTION XV Regulatory Information****International Inventories****TSCA**

Chemical name	CAS No	US TSCA Inventory listing	US TSCA active/inactive designation
Ethanol	64-17-5	Present	Active

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40CFR 122.42).

**US State Regulations**

**California Proposition 65**

Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage. This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Ethanol 64-17-5	Carcinogen Developmental

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	x	x	x

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

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**SECTION XVI Other Information**

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**NFPA**      Health hazards 2      Flammability 3 Instability 0      Physical and chemical properties -  
**HMIS**      Health hazards 2      Flammability 3 Physical hazards 0      Personal protection X

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA      TWA (time-weighted average)      STEL      STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value      \*      Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**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 text.

**End of Safety Data Sheet**



**Mfg. Date:** 03/29/2020

**Exp. Date:** 03/01/2022

### **HAND SANITIZER SPRAY Certificate of Analysis**

<b>Test Method</b>	<b>Specification</b>	<b>Result</b>
Appearance (TMHS0001)	Clear Liquid	Pass
Color (TMHS0002)	Uncolored	Pass
Odor (TMHS0003)	Medicinal (alcohol)	Pass
PH (TMHS0004)	5-7	6.8
Specific Gravity @ 25 (TMHS0005)	0.85 - 0.95	0.85
Viscosity (TMHS0006) RVT 5/10 rpm	n/a	n/a
Ethyl Alcohol	80% - 85%	81.21%
TPC (Outside Lab)	<100 cfu/gm	<10 cfu/gm
Yeast/Mold (Outside Lab)	<10 cfu/gm	<10 cfu/gm



April 23, 2020

Re. Hand Sanitizers (80%).

To whom it may concern:

Greenerways 80% Ethyl Alcohol Hand Sanitizer, per the Food and Drug Administration (FDA) "Policy for Temporary Compounding of Certain Alcohol-Based Hand Sanitizer Products During the Public Health Emergency Immediately in Effect Guidance for Industry <https://www.fda.gov/media/136118/download> is made to these standards and formulation.

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The compounder does not add other active or inactive ingredients. Different or additional ingredients may impact the quality and potency of the product.

Consumers should refer to the product label for appropriate consumer-specific information about this product when used according to the manufacturer's directions.

Healthfully,

A handwritten signature in black ink, appearing to read "Jayme", written in a cursive style.

Jayme Bella  
CEO