



# Hand Sanitizer

Safety Data Sheet

SDS Date: 4/27/2020

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Form:** Mixture

**Product Name:** W H O Sanitizer

**Synonyms:** Ethanol Solution; Alcohol Antiseptic 80% Topical Solution; Hand Sanitizer Non-sterile Solution

### Intended Use of the Product

Sanitizer

This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product.

### Name, Address, and Telephone of the Responsible Party

TransChemical, Inc.

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**Emergency Telephone Number :** 1-800-424-9300 CHEMTREC IN USA; +1-703-527-3887 OUTSIDE OF USA

CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### GHS-US classification

Flam. Liq. 2 H225

Eye Irrit. 2A H319

Full text of H-phrases: see section 16

### Label Elements

#### GHS-US Labeling

**Hazard Pictograms (GHS-US)** :



**Signal Word (GHS-US)** :

Danger

**Hazard Statements (GHS-US)** :

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

**Precautionary Statements (GHS-US)** :

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.

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.



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product identifier	% (w/w)	GHS-US classification
Ethyl alcohol	(CAS No) 64-17-5 (EC no) 200-578-6	75-85	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	13.5-23.5	Not classified
Glycerin	(CAS No) 56-81-5 (EC no) 200-289-5	1.45	Not classified
Hydrogen Peroxide, 3% USP	(CAS No) 7722-84-1 (EC no) 231-765-0	0.125	Ox. Liq. 1;H271 Acute Tox. 4;H302 Acute Tox. 4;H332 Skin Corr. 1A;H314

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**Skin Contact:** Remove contaminated clothing. Rinse immediately with large amounts of water. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Get medical advice and attention if you feel unwell. Rinse mouth. Do NOT induce vomiting.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation.

**Inhalation:** Prolonged exposure to liquid may cause a mild irritation.

**Skin Contact:** Repeated or prolonged skin contact may cause dermatitis and defatting.

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

**Ingestion:** This product is adulterated to prevent ingestion. Ingestion of this product is extremely harmful to human health. Nausea and vomiting, higher exposure causes unconsciousness.

**Chronic Symptoms:** None expected under normal conditions of use.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Alcohol-resistant foam, carbon dioxide, dry chemical, water spray, fog.

**Unsuitable Extinguishing Media:** 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.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** 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.

**Reactivity:** Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.

### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>)



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### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** 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

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** 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

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** 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.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

## 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.

**Incompatible Materials:** 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.

### Specific End Use(s)

For professional use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Ethyl alcohol (64-17-5)		
Mexico	OEL TWA (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Mexico	OEL TWA (ppm)	1000 ppm
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
Alberta	OEL TWA (mg/m <sup>3</sup> )	1880 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	1000 ppm
British Columbia	OEL STEL (ppm)	1000 ppm
Manitoba	OEL STEL (ppm)	1000 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	1880 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	1000 ppm
Newfoundland & Labrador	OEL STEL (ppm)	1000 ppm
Nova Scotia	OEL STEL (ppm)	1000 ppm
Nunavut	OEL STEL (mg/m <sup>3</sup> )	2355 mg/m <sup>3</sup>
Nunavut	OEL STEL (ppm)	1250 ppm
Nunavut	OEL TWA (mg/m <sup>3</sup> )	1884 mg/m <sup>3</sup>
Nunavut	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	2355 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	1884 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (ppm)	1000 ppm
Ontario	OEL STEL (ppm)	1000 ppm
Prince Edward Island	OEL STEL (ppm)	1000 ppm
Québec	VEMP (mg/m <sup>3</sup> )	1880 mg/m <sup>3</sup>
Québec	VEMP (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	1000 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	1000 ppm

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapors below permissible exposure limit. Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective clothing. Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Use chemically protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Colorless, clear, volatile liquid
Odor	: Alcohol
Odor Threshold	: Not available



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<b>pH</b>	:	Not available
<b>Evaporation Rate</b>	:	Not available
<b>Melting Point</b>	:	Not available
<b>Freezing Point</b>	:	Not available
<b>Boiling Point</b>	:	Not available
<b>Flash Point</b>	:	20 °C (68 °F) CC
<b>Auto-ignition Temperature</b>	:	Not available
<b>Decomposition Temperature</b>	:	Not available
<b>Flammability (solid, gas)</b>	:	Not available
<b>Lower Flammable Limit</b>	:	Not available
<b>Upper Flammable Limit</b>	:	Not available
<b>Vapor Pressure</b>	:	Not available
<b>Relative Vapor Density at 20 °C</b>	:	Not available
<b>Relative Density</b>	:	0.85-.87
<b>Specific Gravity at 20 °C</b>	:	0.86
<b>Solubility</b>	:	Water: Completely
<b>Partition Coefficient: N-Octanol/Water</b>	:	Not available
<b>Viscosity</b>	:	Not available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	:	Not expected to present an explosion hazard due to mechanical impact.
<b>Explosion Data – Sensitivity to Static Discharge</b>	:	Static discharge could act as an ignition source.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.

**Chemical Stability:** Stable at standard temperature and pressure.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Heat, flames, and sparks.

**Incompatible Materials:** 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.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>)

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:**

<b>Ethyl Alcohol (64-17-5)</b>	
<b>LC50 Inhalation Rat</b>	124.7 mg/l/4h
<b>Ethyl Alcohol (64-17-5)</b>	
<b>OSHA Hazard Communication Carcinogen List</b>	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:** Prolonged exposure to liquid may cause a mild 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 may cause irritation to mucous membranes. May cause drowsiness and dizziness. Lack of coordination. Nausea. Vomiting. Abdominal pain. Unconsciousness. Very severe cases of overexposure may result in coma.

**Chronic Symptoms:** None expected under normal conditions of use.

**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

Ethyl alcohol (64-17-5)	
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**

**Ecology - General:** Readily biodegrades. Evaporates to moderate extent. Does not bioaccumulate.

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	Not established. May cause long-term adverse effects in the environment.

**Bioaccumulative Potential**

Ethyl Alcohol (64-17-5)	
Log Pow	-0.32
Bioaccumulative Potential	Not established.

**Mobility in Soil** Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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

### SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT**

Proper Shipping Name : ALCOHOLS, N.O.S.  
 Hazard Class : 3  
 Identification Number : UN1987  
 Label Codes : 3  
 Packing Group : II  
 ERG Number : 127



**In Accordance with IMDG**

Proper Shipping Name : ALCOHOLS, N.O.S.  
 Hazard Class : 3  
 Identification Number : UN1987



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**Packing Group** : II  
**Label Codes** : 3  
**EmS-No. (Fire)** : F-E  
**EmS-No. (Spillage)** : S-D  
**In Accordance with IATA**  
**Proper Shipping Name** : ALCOHOLS, N.O.S.  
**Packing Group** : II  
**Identification Number** : UN1987  
**Hazard Class** : 3  
**Label Codes** : 3  
**ERG Code (IATA)** : 3L  
**In Accordance with TDG**  
**Proper Shipping Name** : ALCOHOLS, N.O.S.  
**Packing Group** : II  
**Hazard Class** : 3  
**Identification Number** : UN1987  
**Label Codes** : 3



### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

All Components of this product are on the TSCA list. This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

#### SARA Section 311/312 Hazard Classes

Fire hazard  
Immediate (acute) health hazard

#### US State Regulations

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

##### U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer.

##### U.S. - California - Proposition 65 - Developmental Toxicity

WARNING: This product contains chemicals known to the State of California to cause birth defects.

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

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### International Regulations

The identified components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SEISS), Taiwan (NECSI), USA (TSCA)

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

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 0.1 %

#### WHMIS Classification

Class B Division 2 - Flammable Liquid  
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.



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

**SDS Date** : 4/27/2020 version 1. Replaces 3/26/2020 (original)

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation

### Party Responsible for the Preparation of This Document

TransChemical, Inc.

314-231-6905

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