



# HAND SANITIZER

SAFETY DATA SHEET (SDS)

Revision Date: June 9, 2020

## SECTION 1: IDENTIFICATION

### 1.1 Product Identifier

**Product Form** : Mixture  
**Product Name** : Hand Sanitizer

### 1.2 Intended Use of the Product

**Use of the Product** : Hand Cleanser

### 1.3 Details of the Supplier

**Supplier** : Sunbeam Laboratories  
**Address** : 6150 Donner Rd. Lockport, NY 14094 USA  
**Telephone number** : 7169846520

### 1.4 Emergency Telephone Number

**Emergency Number** : CHEMTREC'S EMERGENCY RESPONSE SERVICE NUMBER  
+1-800-262-8200 (within the U.S.)

In case of medical emergencies, please contact your local poison control center.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

#### GHS-US Classification

Flam. Liq.3	H226
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Repr. 2	H361
STOT SE 3	H336
STOT SE 1	H370

Full text of hazard classes and H-statements : see section 16

## 2.2 Label Elements

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### Hazard Pictograms (GHS-US)



### Signal Word (GHS-US)

Danger

### Hazard Statements (GHS-US)

H226	Flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs (central nervous system, optic nerve) (oral, Dermal)

### Precautionary Statements (GHS-US)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, 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.
P260	Do not breathe mist, spray, and vapors.
P264	Wash exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection, face protection, protective clothing, protective gloves.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use carbon dioxide (CO <sub>2</sub> ), powder, alcohol-resistant foam to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

P405	Store locked up.
P501	Dispose of contents/container to comply with local, state and federal regulations.
P235	Keep cool.

## 2.3 Other Hazards

None.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Ethanol	64-17-5	70%
Water	7732-18-5	29.4%
Carbomer 940	76050-42-5	0.5%
Triethanolamine	102-71-6	0.1%
<i>Lemongrass oil (optional variation)</i>	<i>8007-02-1</i>	<i>0.1%</i>

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

#### First-aid Measures General

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### First-aid Measures After Inhalation

When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

#### First-aid Measures After Skin Contact

Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.

#### First-aid Measures After Eye Contact

Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

#### First-aid Measures After Ingestion

Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms/Injuries After Inhalation	EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties. Central nervous system depression. Symptoms similar to those listed under ingestion.
Symptoms/Injuries After Skin Contact	Slight Irritation.
Symptoms/Injuries After Eye Contact	Redness of the eye tissue. Lacrimation. ON CONTINUOUS EXPOSURE/CONTACT: Irritation of the eye tissue.

Symptoms/Injuries After Ingestion

AFTER ABSORPTION OF LARGE QUANTITIES: Risk of Aspiration pneumonia. Red skin. Body temperature rise. Damp/clammy skin. Excited/restless. Accelerated heart action. Central nervous system depression. Dizziness. Narcosis. Headache. Drunkenness. Nausea. Vomiting. Disturbed motor response. Coordination disorders. Visual disturbances. Impaired concentration. Delusions. Disturbed sensation of pain. Disturbances of heart rate. Disturbances of consciousness. Tremor. Cramps/uncontrolled muscular contractions. Dilated pupils.

Chronic Symptoms

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Gastrointestinal complaints. Enlargement/affection of the liver. Change in the haemogramme/blood composition. Cardiac and blood circulation effects. High arterial pressure. Impairment of the nervous system. Behavioural disturbances. Mental confusion. Disturbed tactile sensibility. Tremor. Affection of the bone marrow. Affection of the endocrine system. Weakening of the immune system.

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

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No information available.

### **SECTION 5: FIRE FIGHTING MEASURES**

#### **5.1 Extinguishing Media**

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**Suitable Extinguishing Media**

Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media**

Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### **5.2 Special Hazards Arising from the Substance or Mixture**

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**Fire Hazard**

DIRECT FIRE HAZARD. Highly flammable. Gas/vapor flammable with air within explosion limits.

INDIRECT FIRE HAZARD. May be ignited by sparks.

Gas/vapor spreads at floor level: ignition hazard. Reactions involving a fire hazard: see "Reactivity Hazard".

**Explosion Hazard**

DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air Within explosion limits.

INDIRECT EXPLOSION HAZARD. may be ignited by sparks.

Reactions with explosion hazards: see "Reactivity Hazard".

**Reactivity**

Hazardous reactions will not occur under normal conditions. Upon combustion: CO and CO<sub>2</sub> are formed. Reacts violently with many compounds e.g.: with (strong) oxidizers: (increased) risk of fire/explosion.

#### **5.3 Advice for Firefighters**

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**Precautionary Measures Fire**

Exercise caution when fighting any chemical fire.

**Firefighting Instructions**

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat

**Protection During Firefighting**

Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

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**General Measures**

Remove ignition sources. Use special care to avoid Static electric charges. No naked lights. No smoking.

**6.1.1 For Non-Emergency Personnel**

**Protective Equipment**

Use appropriate personal protective equipment (PPE). Gloves. Protective goggles. Protective clothing.

**Emergency Procedures**

Large spills/in enclosed spaces: compressed air apparatus. Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.

**6.1.2 For Emergency Personnel**

**Protective Equipment**

Equip clean-up crew with proper protection. Avoid breathing mist, spray.

**Emergency Procedures**

Ventilate area. 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.

**6.2 Environmental Precautions**

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Prevent entry to sewers and public waters.

**6.3 Methods and Materials for Containment and Cleaning Up**

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**For Containment**

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

**Methods for Cleaning Up**

Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

*See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.*

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

#### Precautions for Safe Handling

Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosion proof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

#### Hygiene Measures

Wash exposed skin thoroughly after handling.

### 7.2 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/ventilating/lighting equipment.

#### Storage Conditions

Keep the container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

#### Incompatible Materials

Strong acids, strong bases

### 7.3 Specific End Use(s)

Hand Sanitizer

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

No additional information available.

### 8.2 Exposure Controls

#### Appropriate Engineering Controls

Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

#### Personal Protective Equipment

Gloves. Protective clothing. Protective goggles. Gas Mask.



#### Materials for Protective Clothing

Chemically resistant materials and fabrics.

**Hand Protection****Eye and Face Protection****Skin and Body Protection****Respiratory Protection****Other Information**

Butyl rubber, Viton, Neoprene, Tetrafluoroethylene

Wear protective gloves.

Chemical safety goggles.

Wear suitable protective clothing.

Wear gas mask with filter type A if conc. in air &gt; exposure limit.

When using, do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on Basic Physical and Chemical Properties**

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Physical State	: Liquid
Odor	: Alcohol, faint citrus
pH	: No data available
Density	: 0.8 – 0.9 g/L
Melting Point	: -115 °C
Boiling Point	: > 78 °C
Flash Point	: 25 °C
Evaporation Rate	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Solubility	: Soluble in water, alcohol and ether
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

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Upon combustion: CO and CO<sub>2</sub> are formed. Reacts violently with many compounds e.g.: with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with (some) acids.

**10.2 Chemical Stability**

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Hygroscopic.

**10.3 Possibility of Hazardous Reactions**

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Not established.

**10.4 Conditions to Avoid**

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Direct sunlight. Extremely high or low temperatures. Open flame.

**10.5 Incompatible Materials**

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Strong acids, strong bases.

## 10.6 Hazardous Decomposition Products

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Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute Toxicity	: Not classified
Skin Corrosion/Irritation	: Causes skin irritation.
Serious Eye Damage/Irritation	: Causes serious eye irritation.
Respiratory or Skin Sensitization	: Not classified
Germ Cell Mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive Toxicity	: Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure)	: May cause drowsiness or dizziness. Causes damage to organs (central nervous system, optic nerve) (oral, Dermal).
(Repeated Exposure)	: Not classified
Aspiration Hazard	: Not classified

#### Symptoms/Injuries

After Inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties. Central nervous system depression. Symptoms similar to those listed under ingestion.
After Skin Contact	: Slight irritation.
After Eye Contact	: May cause slight irritation to eyes.
After Ingestion	: Ingestion may cause adverse effects.
Chronic Symptoms	: None expected under normal conditions of use. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Gastrointestinal complaints. Enlargement/affection of the liver. Change in the haemogramme/blood composition. Cardiac and blood circulation effects. High arterial pressure. Impairment of the nervous system. Behavioural disturbances. Mental confusion. Disturbed tactile sensibility. Tremor. Affection of the bone marrow. Affection of the endocrine system. Weakening of the immune system.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

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Not classified as dangerous for the environment.

### 12.2 Persistence and Degradability

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Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.



### 12.3 Bioaccumulative Potential

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Low potential for bioaccumulation (Log Kow <4).

### 12.4 Mobility in Soil

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No additional information available

### 12.5 Other Adverse Effects

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Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Disposal Recommendations

: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.

### Additional Information

: Containers may remain hazardous when empty. Continue to observe all precautions.

### Ecology - Waste Materials

: Avoid release to the environment.

## SECTION 14: TRANSPORTATION INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In Accordance with DOT  
In Accordance with IMDG  
In Accordance with IATA

Not regulated for transport  
Not regulated for transport  
Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

Ethyl Alcohol, 70% v/v	
SARA Section 311/312 Hazard Classes	Physical hazard -Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard -Reproductive toxicity

<b>Ethanol (64-17-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>Water (7732-18-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Latest Revision Date	June 9, 2020
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:

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs

**Disclaimer & Caution**

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