



Alcohol Based Hand Sanitizer Safety Data Sheet

Section 1: Identification of the substance or mixture and of the supplier

Product Name:

Alcohol Based Hand Sanitizer

Synonyms/Other Means of Identification:

Hand Sanitizer

SKU #:

AS08

Manufacturer:F-Matic Inc.
299 South Millpond Drive
Lehi, Utah 84043**Emergency Contact:**

US & Canada: 1-800-535-5053 | International 1-352-323-3500

Section 2: Hazard(s) Identification

Classification

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

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. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

Label Elements

Signal Word

Warning

Hazard Statements

Causes serious eye irritation

Highly flammable liquid and vapor.

Precautionary Statement(s):

Keep away from heat/sparks/ open flames/ hot surfaces. No Smoking. 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Section 3: Composition / Information on Ingredients

INGREDIENTS: The identity of the specific components of this mixture is proprietary information and regarded to be a trade secret, in accordance with the provisions of paragraph 1910.1200 of Title 29 of the Code of Federal Regulations. Please refer to section 2 for hazard identification.

Chemical Name	CAS No.#	Content (w/w%)
Ethanol	64-17-5	80%
Glycerin USP Kosher	56-81-5	1.45%
Water	7732-18-5	18.425%
Hydrogen Peroxide	7722-84-1	0.125%

Section 4: First Aid Measures

Eye Contact: Flush eyes under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, seek medical attention. For direct contact, remove contact lenses if present and easy to do so. Immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek immediate medical attention.

Skin Contact: If irritation persists, wash with water.

Inhalation (Breathing): Get medical attention if symptoms occur.

Ingestion (Swallowing): Contact a physician or Poison Control Center immediately. **Do** not induce vomiting, never give anything by mouth to an unconscious person.

Most important symptoms and effects

Acute: Eye irritation

Delayed: None known

Section 5: Fire-Fighting Measures

NFPA 704 Hazard Class

Health: 1 **Flammability:** 3 **Instability:** 0 (0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

HMIS®

Health: 1 **Flammability:** 3 **Physical Haz:** 0 (0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe, *Chronic)

Extinguishing Media: Use extinguishing media suitable for surrounding fire.

Specific Hazards Arising From the Chemical

Unusual Fire & Explosion Hazards: No unusual fire or explosion hazards are expected. If container is not properly cooled, it can rupture in the heat of a fire.

Hazardous Combustion Products: Carbon oxides.

Special Protective Actions for Firefighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. If this cannot be done, allow fire to burn. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely.

Section 6: Accidental Release Measures

Personal Precautions: No special requirements.

Environmental Precautions: Avoid contact of large amounts of spilled material runoff with soil and surface waterways. Absorb with inert material. Use a water rinse for final cleanup.

Methods and Materials for Containment and Clean-Up: Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Section 7: Handling and Storage

Precautions for safe handling: Wash thoroughly after handling.

Conditions for safe storage: Keep out of reach of children. Keep container tightly closed. Store between 32 to 122 degrees F.

Section 8: Exposure Controls / Personal Protection

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Glycerol 56-81-5	-	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	-
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³ (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m ³	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³

Engineering controls: Good general ventilation should be sufficient to control workers exposure to airborne contamination.

Personal Protective Equipment:

Eye/Face Protection: Eye protection should be used when splashing may occur.

Skin/Hand Protection: No protective equipment is needed under normal use.

Respiratory Protection: No protective equipment is needed under normal use

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

Section 9: Physical and Chemical Properties

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance:	Clear, Colorless
Physical Form:	Gel
Odor:	Alcoholic
Odor Threshold:	No data
pH:	No data
Vapor Pressure:	N/A
Vapor Density (air=1):	N/A
Initial Boiling Point/Range:	78.9 °C/ 172.9 °F
Melting/Freezing Point:	No data
Solubility in Water:	No data
Partition Coefficient (n-octanol/water) (Kow):	No data
Specific Gravity (water=1):	No data
Evaporation Rate (nBuAc=1):	No data
Flash Point:	17.5 °C / 63.5 °F
Test Method:	N/A

Viscosity	No data
Upper Explosive Limits (vol % in air):	Not applicable
Auto-ignition Temperature:	Not applicable

Section 10: Stability and Reactivity

Reactivity: Stable under normal ambient and anticipated conditions of use.

Chemical Stability: Stable under normal ambient and anticipated conditions of use.

Stability: Stable under normal ambient and anticipated conditions of use.

Conditions to Avoid: Heat, Sparks, Open flames and Temperatures above 120°F.

Materials to Avoid (Incompatible Materials): Strong acids, Strong Bases, Strong Oxidizing Agents, Strong Reducing Agents

Hazardous Decomposition Products: Carbon oxides and hydrocarbons.

Section 11: Toxicological Information

Information on Toxicological Effects of Substance/Mixture

<u>Acute Toxicity</u>	<u>Hazard</u>	<u>Additional Information</u>	<u>LC50/Lata</u>
Inhalation	No data available	No data available	No data available
Skin Absorption	Unlikely to be harmful	No data available	No data available
Ingestion (Swallowing)	Unlikely to be harmful	No data available	No data available

Aspiration Hazard: Not anticipated.

Skin Corrosion/Irritation: May cause slight irritation.

Serious Eye Damage/Irritation: Causes eye irritation.

Signs and Symptoms: No information available.

Skin Sensitization: No information available.

Respiratory Sensitization: No information available.

Specific Target Organ Toxicity (Single Exposure): Not expected to cause organ effects from exposure.

Specific Target Organ Toxicity (Repeated Exposure): Not expected to cause organ effects from repeated exposure.

Carcinogenicity: Not expected to cause cancer.

Germ Cell Mutagenicity: Not expected to cause heritable genetic effects.

Reproductive Toxicity: Not expected to cause reproductive toxicity.

Other Comments: None known.

Section 12: Ecological Information

Ecotoxicity:

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

Persistence and Degradability: No data

Bioaccumulative Potential:

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

Mobility in Soil: No data

Other Adverse Effects: None anticipated.

Section 13: Ecological Information

Industrial Setting: The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" or "characteristic" hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

Household Setting: Consumer may discard or recycle where facilities exist.

Section 14: Transport Information

DOT	
Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	ORM-D
Description	CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number	127

TDG	
UN-No.	UN1170
Proper Shipping Name	ETHANOL
Hazard Class	3
Packing Group	II
Description	UN1170, ETHANOL, 3, II
MEX	
UN-No.	UN1170
Proper Shipping Name	ETHANOL
Hazard Class	3
Packing Group	II
Description	UN1170, ETHANOL, 3, II
ICAO	
UN-No.	UN1170
Proper Shipping Name	ETHANOL
Hazard Class	3
Packing Group	II
Description	UN1170, ETHANOL, 3, II
IATA	
UN-No.	UN1170
Proper Shipping Name	ETHANOL
Hazard Class	3
Packing Group	II
Description	UN1170, ETHANOL, 3, II
IMDG/IMO	
UN-No.	UN1170
Proper Shipping Name	ETHANOL
Hazard Class	3
Packing Group	II
EmS No.	F-E, S-D
Description	UN1170, ETHANOL, 3, II, (23°C C.C.)

Section 15: Regulatory Information

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health:	No
Chronic Health:	No
Fire Hazard:	Yes
Pressure Hazard:	No
Reactive Hazard:	No

CERCLA/SARA - Section 313 and 40 CFR 372:

This material does not contain any chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

EPA (CERCLA) Reportable Quantity (in pounds):

No data

California Proposition 65:

This product is not subject to the warning labeling requirements under California Proposition 65 (CA Health & Safety Code Section 25249.5). 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
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Ethanol - 64-17-5	Carcinogen Developmental
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National Chemical Inventories

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA All components are either on the DSL, or are exempt from DSL listing requirements.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA active/inactive designation
Ethanol	64-17-5	Present	Active
Water	7732-18-5	Present	Active
Glycerol	56-81-5	Present	Active
Hydrogen peroxide	7722-84-1	Present	Active

Section 16: Transport Information

Date of Issue:	16-April-2020
Status:	Final
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Revised Sections or Basis for Revision:	N/A
Guide to Abbreviations:	

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

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