

GHS COMPLIANT SAFETY DATA SHEET

TO COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR.1910.1200 & THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

SECTION 1: IDENTIFICATION

PRODUCT NAME	Hand Sanitizer
MFR. 'S CODE ID/SYNONYMS	Hand Sanitizer, Estron Hand Sanitizer, Clean World™ Hand Sanitizer
CAS NUMBER	Mixture (see Sections 3 or 8)
PRODUCT USE	Hand Sanitizer
RESTRICTIONS ON USE	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. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.
MANUFACTURER/SUPPLIER	Estron Chemical, Inc.
ADDRESS	807 North Main Street, Calvert City, KY 42029 USA
GENERAL INFORMATION	(270) 395-4195
EMERGENCY TELEPHONE	CHEMTREC (800) 424-9300



SECTION 2: HAZARDS IDENTIFICATION

Signal Word: *Danger*

GHS Classification

Physical	Health	Environmental
Flammable Liquids – Category 2	Eye Damage/Irritation – Category 2A	None

GHS Label

<p>Symbols: Flame  Exclamation Mark </p>	
<p>Hazard Statements H225: Highly flammable liquid and vapour H319: Causes serious eye irritation</p>	<p>Precautionary Statements <i>Prevention</i> P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/light/equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P264: Wash exposed skin thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. <i>Response</i> P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p>

	<p>P337+313: If eye irritation persists get medical advice/attention. P370+378: In case of fire: Use foam, dry chemical powder, carbon dioxide or water fog to extinguish.</p> <p><i>Storage</i> P403+235: Store in a well ventilated place. Keep cool.</p> <p><i>Disposal</i> P501: Dispose of contents/container to an authorized hazardous waste handler.</p>
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HAZARDS NOT OTHERWISE CLASSIFIED: None identified.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	%	CLASSIFICATION	H CODES
Ethyl Alcohol	64-17-5	70 - 80	Flammable Liquids – Category 2 Eye Damage/Irritation – Category 2A	H225 H319

(See Section 8 for Exposure Limits)

SECTION 4: FIRST-AID MEASURES

SYMPTOMS OF EXPOSURE

ACUTE Serious eye irritation. Temporary mild skin irritation. Nausea.

DELAYED Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Headache. Nausea. Unconsciousness.

INHALATION If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is labored or with coughing, give 100% supplemental oxygen. If not breathing begin artificial respiration and get medical aid.

SKIN CONTACT May cause temporary skin irritation. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

EYE CONTACT Causes serious eye irritation. Wash exposed skin thoroughly after handling. 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.

INGESTION If ingested, seek medical attention.

SPECIFIC TREATMENT No other specific treatments are known or have been identified.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION Flammable Liquid Class IB

FLAMMABLE LIMITS
LEL: 2.4 %, by volume of solvent.
UEL: 19 %, by volume of solvent.

HAZARDOUS COMBUSTION PRODUCTS Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Sulfur.

EXTINGUISHING MEDIA Dry Chemical, Foam, CO₂, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS Solvent vapors may travel in the work place. Since even residual amounts can ignite explosively, ensure all ignition sources are removed from the area. Solid stream of water may spread fire. Caustic soda may induce vigorous polymerization of the resinous material at temperatures around 200 °C.

SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus and protective suit when fighting fire. Solid streams of water may spread the fire.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full (Bunker) protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Avoid contact with eyes and clothing. Ensure adequate ventilation.

PROTECTIVE EQUIPMENT See Personal Protective Equipment in Section 8.

EMERGENCY PROCEDURES	Avoid unnecessary exposure to bystanders, prevent contact with open flames or high heat sources. Isolate the area and eliminate all ignition sources. Ground and bond all containers and handling equipment. Pump with explosion-proof equipment.
ENVIRONMENTAL PRECAUTIONS	Obey relevant local, state, provincial and federal laws and regulations. Do not allow the product to enter public drainage systems or open water courses.
METHODS AND MATERIALS FOR CLEANING UP	Absorb the product onto vermiculite, floor absorbent or other absorbent materials, such as dry-lime, sand, or soda ash. Sweep or scoop into a suitable container for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Avoid contact with the eyes and clothing. Wash thoroughly after handling. Avoid breathing vapors. Use with adequate ventilation. Ground and bond all containers and handling equipment. Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges. Emptied containers may still be hazardous. Do not cut, drill, grind, weld or perform similar actions on or near empty containers. Wear appropriate protective equipment when handling this material (See Section 8).
CONDITIONS FOR SAFE STORAGE	Store in cool, dry, well-ventilated areas. Keep containers closed. Do not store near extreme heat, open flame or sources of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	CAS #	%	ACGIH TLV	OSHA PEL
Ethyl Alcohol	64-17-5	70 - 80	1000 ppm	1000 ppm
APPROPRIATE ENGINEERING CONTROLS	Showers, eyewash stations and explosion-proof ventilation systems.			
PERSONAL PROTECTIVE EQUIPMENT				
EYE/FACE	Chemical splash goggles or face shield.			
SKIN	When handling in a non-hand sanitizer situation, it is advisable to wear resistant gloves (consult you safety equipment supplier) and impervious protective clothing as appropriate to prevent prolonged skin contact..			
RESPIRATORY	An appropriate NIOSH approved respirator where exposure limits are exceeded.			
HYGIENE MEASURES	Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Wash face and hands before breaks and at the end of work. Wash contaminated clothing before re-use.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid	ODOR	Strong, alcoholic
ODOR THRESHOLD	No test data available	pH	No test data available
MELTING POINT	No test data available	BOILING POINT/RANGE	78 °C @ 760 mmHg
FLASH POINT	TCC, 55°F (13°C)	EVAPORATION RATE	2 (n-Butyl Acetate)
FLAMMABILITY	Flammable Liquid Class IB		
FLAMMABLE LIMITS	LOWER 2.4 %, <i>by volume of solvent</i>	UPPER 19 %, <i>by volume of solvent</i>	
VAPOR PRESSURE	59 mmHg @ 20 °C	VAPOR DENSITY	No test data available
RELATIVE DENSITY	0.844	SOLUBILITY IN H ₂ O	Miscible
PARTITION COEFFICIENT (n-octanol/water)	No test data available	AUTOIGNITION TEMPERATURE	363 °C (685 °F)
DECOMPOSITION TEMPERATURE	No test data available	VISCOSITY	No test data available
% VOLATILE	96 - 99%	SOFTENING POINT	Not applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	This product does not pose a significant reactivity hazard when stored appropriately (see Section 7).
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STABILITY	This product is stable when stored appropriately.
CONDITIONS TO AVOID	All ignition sources, heat and open flames.
INCOMPATIBLE PRODUCTS	Strong oxidizers and caustic soda.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Sulfur.
POSSIBILITY OF HAZARDOUS REACTIONS	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE

ACUTE	Serious eye irritation. Temporary mild skin irritation. Nausea.
DELAYED	Stinging, tearing, redness and swelling of the eyes. Redness or burning of the skin. Headache. Nausea. Unconsciousness.

ACUTE TOXICITY

INHALATION	Not likely to have harmful effects in normal exposures.		
SKIN	May cause temporary skin irritation.		
EYES	Causes serious eye irritation.		
INGESTION	Not likely to have harmful effects in normal exposures, may cause nausea or gastric distress if ingested in quantity.		
INHALATION TOXICITY	LC ₅₀ Rat, 4 hours	Ethyl Alcohol	124.7 mg/l
DERMAL TOXICITY	LD ₅₀ Rabbit	Ethyl Alcohol	No data available
SKIN IRRITATION	Draize, Rabbit, 24 hours	Ethyl Alcohol	Not a known irritant
EYE IRRITATION	Draize, Rabbit, 24 hours	Ethyl Alcohol	Not a known irritant
ORAL TOXICITY	LD ₅₀ Rat	Ethyl Alcohol	7,060 mg/kg
SENSITIZATION	Draize, Rabbit	No components with known sensitization properties	

CHRONIC EFFECTS

CARCINOGENICITY	No components are listed as a carcinogen by ACGIH, IARC, NTP, at identified levels.		
MUTAGENIC EFFECTS	None known		
REPRODUCTIVE TOXICITY	None known		
TARGET ORGAN EFFECTS	Narcotic Effects (Inhalation)		

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Not known to be harmful to aquatic life.		
TOXICITY TO FISH	LC ₅₀ <i>Pimephales promelas</i> , 96 h	Ethyl Alcohol	15,300 mg/l
TOXICITY TO DAPHNIA	EC ₅₀ <i>Ceriodaphnia dubia</i> , 48 h	Ethyl Alcohol	5,012 mg/l
PERSISTANCE AND DEGRADABILITY	No data available		
BIOACCUMULATIVE POTENTIAL	No data available		
MOBILITY IN SOIL	No data available		
OTHER ADVERSE EFFECTS	None known		

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Dispose of in accordance with local, state and federal regulations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers may retain some product residues. Vapor from product residues may create a flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been thoroughly cleaned. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

US EPA WASTE NUMBER & DESCRIPTION No information available

SECTION 14: TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

U.S. DOT

Proper Shipping Name: Alcohols, n.o.s. (Ethyl alcohol)
Classification: 3
UN#: 1987
Packing Group: II
Hazard Label: Flammable Liquid

ICAO / IATA

Proper Shipping Name: Alcohols, n.o.s. (Ethyl alcohol)
Classification: 3
UN#: 1987
Packing Group: II
Hazard Label: Flammable Liquid

IMDG

Proper Shipping Name: Alcohols, n.o.s. (Ethyl alcohol)
Classification: 3
UN#: 1987
Packing Group: II
EmS#: F-E, S-D
Hazard Label: Flammable Liquid

ADR/RID

Proper Shipping Name: Alcohols, n.o.s. (Ethyl alcohol)
Classification: 3
UN#: 1987
Packing Group: II
Hazard Label: Flammable Liquid

SECTION 15: REGULATORY INFORMATION

FEDERAL REGULATIONS

SARA 313 This product does not contain any chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

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

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

CERCLA

This product, as supplied, contains substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this product.

Methanol CAS # 67-56-1 0.0113%

CLEAN WATER ACT

This product contains substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Methanol CAS # 67-56-1 0.0113%

CLEAN AIR ACT

This product contains substances regulated as hazardous air pollutants (HAPS under Section 112 of the Clean Air Act Amendments of 1990).

Methanol CAS # 67-56-1 0.0113%

OTHER FEDERAL

None known

U.S. STATE REGULATIONS

RIGHT TO KNOW The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in Sections 2 and 15 of this Safety Data Sheet.

CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

WARNING! This product contains a chemical known to the State of California to cause cancer.

CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

DISCLAIMER

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. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

This product should be used in accordance with the manufacturer's recommendations. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

DATE OF REVISION May 5, 2020, *first version*

REASON FOR REVISION New SDS.

SDS PREPARED BY Glen Pearson and Robert Auerbach

SDS APPROVED BY Robert Auerbach