

Safety Data Sheet

1. Identification of the Substances/Preparation and of the Company/Undertaking

Product Details

Trade Name: Alcohol Hand Sanitizer

Application of the substance: Used for cleaning hands that germs in hands can be killed.

2. Composition/Information on Ingredients

Description: Mixture of substances listed below with additions.

Components Name	EC# (EINECS#)	CAS#	Weight %	Workplace	Exposure	Limit
				Long-Term (8-Hour) ppm mg/m ³	Short-Term (15-Minute) ppm mg/m ³	
Deionized Water	231-791-2	7732-18-5	36.63%	--	--	
Ethyl Alcohol	200-578-6	64-17-5	62%	1000 ppm	--	
Carbomer	202-415-4	76050-42-5	0.1%	--	--	
Triethanolamine	203-049-8	102-71-6	0.1%	5 mg/m ³	--	
Tocopheryl Acetate	231-710-0	7695-91-2	0.02%	--	--	
Propylene Glycol	200-338-0	57-55-6	0.5%	--	--	
Glycerin	200-289-5	56-81-5	0.5%	10 mg/m ³	--	
Fragrance	Mixture	Mixture	0.15%	--	--	

3. Hazards Identification



F: Flammable

HMIS Ratings (Scale 0-4)

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ZHEJIANG LANDER STANDARD TECHNOLOGY CO., LTD.

ADD: No.160, 11th Avenue South, Economic & Technological Development Zone, Hangzhou, Zhejiang Province 310018

TEL: +(86) 571 86043999 FAX: +(86) 571 87906666 Free Line : 800 8571 758 <http://www.ltlab.com.cn> E-mail: info@ltlab.com.cn

HEALTH	1
FIRE	2
REACTIVITY	1
PPE	

Health=1 Fire=2 Reactivity=1

(0=Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

Potential Health Effects:

Contact with Skin: No hazard is present under normal use. It will cause irritation to skin in case of contact in excessive quantity.

Contact with Eyes: May cause slight irritation and symptoms may include tearing and redness.

Inhalation: Under normal conditions of use and handling, no inhalation hazard is present.

Ingestion: It will cause nausea or vomiting if it is swallowed in large quantity.

Effects of Overexposure - Chronic: Not found.

Carcinogenicity Information: This product won't cause cancer.

4. First-Aid Measures

Persons using these products should consult a physician or other medical professional if an accident involving these products in injury. Specific first-aid measures are as follows:

Eye Contact: Immediately raise eyelids and flush with lukewarm water for at least 15 minutes. If things don't get better, seek medical attention.

Skin Contact: There are no relevant requirements as this product presents no hazards to skin.

Inhalation: If any adverse effect occurs as a result of inhalation of excessive vapor, remove individual to fresh air.

Ingestion: Don't induce vomiting unless under professional instructions.

Recommendations to Physicians: Treat symptoms.

5. Fire-Fighting Measures

Flammability of the Products: Flammable liquid.

Suitable Extinguishing Media: Use chemical foam, dry chemical, carbon dioxide or water.

Unusual Fire and Explosion Hazards: Moderate explosion hazard when exposed to ignition source. Closed cans exposed in flame and heat may erupt scattering fragments.

Special Fire Fighting Precaution/Instructions: Contact emergency personnel. Do not use high pressure stream of water to extinguish burning. Wear full protective equipment and a self-contained breathing apparatus. Hazardous combustion products may be released include small amounts of oxides of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons.

6. Accidental Release Measures

Personal Precautions: Use personal protection recommended in section 8. Isolate the hazard area and deny

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entry to unnecessary and unprotected personnel. Eliminate of ignition.

Precautions to Protect the Environment: Should not be released into the environment. Prevent the product from entering drains. If large quantities enter a waterway, advise local authorities.

Methods for Cleaning Up: Floor may become slippery. Dike and contain large spills with inert material (sand, earth ...) and transfer for disposal. Thoroughly wash the area with water after a spill or leak.

7. Handling and Storage

Handling: Keep away from sources of ignition. No smoking. Avoid contact with eyes. For external use only.

Storage: Keep out of the reach of children. Store upright and in original container. Keep container closed during storage. Do not store at temperatures above 49 °C.

8. Exposure Controls/Personal Protection

Ventilation and Engineering Controls: No special ventilation and engineering controls are required for handling of this product.

Personal Protective Equipment

Respiratory Protection: No special requirements with normal household use.

Skin Protection: No special requirements with normal household use. Wear gloves if handling large quantities.

Eye Protection: No special requirements with normal household use. Avoid contact with eyes. Wear safety glasses or goggles if handling large quantities.

9. Physical and Chemical Properties

General Information	
Odor:	Alcohol odor
Color:	Transparent and colorless
Form:	Liquid
pH:	N/A
Melting Point/Range:	N/A
Boiling Point/Range:	85 °C
Ignition Temperature:	N/A
Flash Point:	24 °C
Density (20 °C):	N/A
Relative Vapor Density(Air=1):	N/A
Vapor Pressure:	N/A
Evaporation Rate & Reference:	N/A
Solubility in/Miscibility with Water:	Soluble in water
Explosion Limits in Air - Upper :	N/A

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Explosion Limits in Air - Lower:	N/A
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10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Decomposition Products: No toxic decomposition products have been found.

Materials which should be Avoided: Strong acids, oxidants and ignition sources.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

General Information: This product is household product. The use of this product by consumer is safe under normal and reasonable foreseen use.

Acute Toxicity

Ingredient	LD50	Toxicity Rating
Ethyl Alcohol (CAS# 64-17-5)	LD50 = 7,060 mg/kg (Oral, Rat)	Practically Non-Toxic
Triethanolamine (CAS# 102-71-6)	LD50 = 4,920 mg/kg (Oral, Rat)	Slightly Toxic
Propylene Glycol (CAS# 57-55-6)	LD50 = 20,000 mg/kg (Oral, Rat) LD50 ≥ 20,800 mg/kg (Skin, Rabbit)	Practically Non-Toxic Practically Non-Toxic
Glycerin (CAS# 56-81-5)	LD50 = 12,600 mg/kg (Oral, Rat) LD50 = 10,000 mg/kg (Skin, Rabbit)	Practically Non-Toxic Practically Non-Toxic

Chronic Effects: Due to the nature and composition of this product no chronic health effects are anticipated.

Carcinogenic Effects: IARC classifieds ethanol as "Human Sufficient Evidence" from chronic ingestion of alcoholic beverages.

Epidemiology: None of the ingredients in this product are known to have health-related information in working populations.

Mutagenic Effects: None of the ingredients in this product are known to cause mutagenicity.

Reproductive Toxicity: Ethanol crosses the placenta and can cause acute intoxication of the newborn or teratogenic effects, including fetal alcohol syndrome.

12. Ecological Information

General Information: No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.

Ecotoxicity

Ingredient	LC50/EC50 (Animal Specie)	Toxicity Rating
Ethanol (CAS# 64-17-5)	LC50 = 14.2 mg/L (Pimephales Promelas, 96h) LC50 = 12,900 mg/L (Oncorhynchus Mykiss, 96h)	Toxic Practically Non-Toxic

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EC50=9,268 mg/L (*Daphnia magna*, 48h)

Practically Non-Toxic

Environmental Fate: The product is anticipated to be rapidly biodegradable.**Mobility:** The mobility of this product (in soil and water) has not been determined.**Persistence and Degradability:** The persistence and degradability of this product has not been determined.**Bioaccumulative Potential:** The bioaccumulation potential of this product has not been determined.

13. Disposal Considerations

Waste Disposal Methods:

Do Not allow it to enter sewage system.

Do Not allow it to enter any water cause.

When no longer needed, these articles may be disposed of as permitted by local waster handling authority.

14. Transport Information

DOT Classification for Bulk Shipments (non-bulk shipments may differ): Not a DOT controlled material (United States).**Hazard Class Number and Description:** Class 3**Proper Shipping Name:** Flammable Liquids, N.O.S (Contain Ethanol)**Packing Group:** III**UN Identification:** UN 1993**North American Emergency Response Guidebook Number, 2000:** Not applicable**Marine Pollutant:** No component of these products is designated as a Marine Pollutant, per Appendix B to 49 CFR 172.101.

15. Regulatory Information

USA**TSCA:** All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) Inventory or exempt from listing on the TSCA Inventory.**California Proposition 65:** This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.**HMIS Ratings (Scale 0-4)**

HEALTH	1
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REACTIVITY	1
PPE	

Health=1 Fire=2 Reactivity=1

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EC Classification for the Substance/Preparation**Symbol(s) and Indication(s) of Danger:**

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F –Flammable

Risk Phrase:

R10 *Flammable.*
R22 *Harmful if swallowed.*
R36 *Irritating to eyes.*

Safety Phrase:

S2 *Keep out of the reach of children.*
S16 *Keep away from heat.*
S62 *Do not induce vomiting if it is swallowed. Seek medical attention immediately and show the label or container to the doctor.*

16. Other Information

Abbreviations: mg/m³ –Milligrams Per Cubic Meter

CAS# – Chemical Abstract Service number - used to uniquely identify chemical compounds

EC#–EINECS (European Inventory of Existing Commercial chemical Substances)

ACGIH –American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

LD50 – Lethal Dose 50 Percent Kill

LC50- Lethal Concentration 50 Percent Kill

DOT – Department of Transportation

Further Information:

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
- This safety data sheet was prepared in accordance with ANSI Z400.1.

Department Issuing MSDS: Zhejiang AYAN Biotech Co., Ltd.

Issue Date: May 26,2016

This MSDS Service is Provided by ZHEJIANG LANDER STANDARD TECHNOLOGY CO., LTD.

Signed for and on behalf of

Lander Testing Lab



Liu Jingjing
Chemistry Lab Engineer
Date: May 26, 2016

*****End*****

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