

## Material Safety Data Sheet

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

#### Product Details

**Trade Name:** Hand Sanitizer

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

**Manufacturer/Supplier:** Zhejiang AYAN Biotech Co., Ltd.

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**Further Information Obtainable from:** Zhejiang AYAN Biotech Co., Ltd.

#### Information in Case of Emergency

**Tel:** +86-574-83528001

**Contact Person:** Bill Chen

### 2. Composition/Information on Ingredients

Description: Mixture of substances listed below with additions.

Components Name	EC# (EINECS#)	CAS#	Weight %
Water	231-791-2	7732-18-5	31.62
Ethyl Alcohol	200-578-6	64-17-5	67.00
Carbomer	202-415-4	76050-42-5	0.27
Triethanolamine	203-049-8	102-71-6	0.255
Propylene Glycol	57-55-6	200-338-0	0.50
Glycerin	200-289-5	56-81-5	0.20
Tocopheryl Acetate	231-710-0	7695-91-2	0.005
Fragrance	/	/	0.15

### 3. Hazards Identification

**Emergency Overview:** When used according to instructions, the product is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may cause harmful.

#### 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 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

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

## 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=4,920mg/kg(Oral,Rat)	Slightly Toxic
Glycerin (CAS# 56-81-5)	LD50=12,600mg/kg(Oral, Rat) LD50=10,000mg/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 classified 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
Ethyl Alcohol (CAS# 64-17-5)	LC50=14.2mg/L (Pimephales Promelas, 96h) LC50=12,900mg/L(Oncorhynchus Mykiss, 96h) EC50=9,268 mg/L (Daphnia magna, 48h)	Toxic Practically Non-Toxic 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

### **Road Regulation(ADR/RID)**

*It is not classed as hazardous chemicals in ADR/RID regulations.*

### **Air transportation(IATA/ICAO)**

*It is not classed as hazardous materials or dangerous goods for transportation under IATA/ICAO regulations.*

### **Marine Transportation(IMO/IMDG)**

*It is not regulated as hazardous material or dangerous goods for transportation under IMO/IMDG regulations*

**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.*

## 16. Other Information

**Abbreviations:** *mg/m<sup>3</sup> –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.*

\*\*\*\*\*End\*\*\*\*\*