

Applicant: Jiangxi chief Industrial CO.LTD

Address: Chepu Industrial Zone, No.1866 Dongsheng Avenue, Nanchang, Jiangxi Province

**Sample information:**

Sample name: 75% Ethanol Disinfectant

Model: /

Sample composition/raw material (supplied by client): Refer to section 3 of the MSDS"Composition/Information on Ingredient"

Edit period: From March 20, 2020 to March 24, 2020

**Required service** : As specified by the client, to edit Material Safety Data Sheet (MSDS) by the submitted sample information.

**Summary** : As specified by the client, This safety data sheet was prepared in accordance with UN GHS Rev.8, The EU CLP REGULATION (EC) No 1272/2008, and US OSHA Hazard Communication Standards (29 CFR 1910.1200). Please refer to the attached report for details.

Shanghai Changyin Testing Technology Co.,Ltd

Prepared by: Cao Haley

Approved by: \_\_\_\_\_



Reviewed by: He Li

Date: 2020.3.24

# Material Safety Data Sheet (MSDS)

In accordance with GHS Rev. 8 and The EU CLP REGULATION (EC) No 1272/2008

## Section 1 - Chemical Product and Company Identification

### 1.1 Product Identification:

Product Name: 75% Ethanol Disinfectant  
Product Model: /

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Sterilization, disinfection  
Use advised against: No data available.

### 1.3 Details of the Manufacture or supplier

Manufacture: Jiangxi chief Industrial CO.LTD  
Address: Chepu Industrial Zone, No.1866 Dongsheng Avenue, Nanchang, Jiangxi Province  
Telephone: +86-791-87313888  
Fax: +86-791-87313888

### 1.4 Emergency telephone number

Emergency Telephone: +86-791-87313888

## Section 2 - Hazards Identification

### 2.1 Classification of the substance or mixture

GHS Classification: Flammable liquids, category 2  
Eye irritation, category 2A

### 2.2 GHS Label elements, including precautionary statements

GHS Labels:

Pictogram(s):



Signal Word:

Danger

Hazard Statement:

H225: Highly flammable liquid and vapour

H319: Causes serious eye irritation.

Precautionary statement(s)

**Prevention precautionary statements:** P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

**Response Precautionary Statements:** P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P337+313: If eye irritation persists get medical advice/attention

**Storage Precautionary Statements:** P403+235: Store in a well ventilated place. Keep cool

**Disposal Precautionary Statements:** P501: Dispose of contents and container in accordance with local / regional / national / international regulations.

### 2.3 Description of any hazards not otherwise classified

None. See section 11 for more detailed information on health effects and symptoms.

## Section 3 - Composition/Information on Ingredient

Substance ( ) Preparation (✓) Article ( )

Composition:

Chemical name	CAS No.	Content (% w/w)
Ethanol	64-17-5	65-85
Deionized water	7732-18-5	20-40

Abbreviation: CAS No. is Chemical Abstract Service Registry Number.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures:

**Eye Contact:** Flush opened eyes with plenty of water for several minutes. If eye irritation persists, get medical advice/attention

**Skin Contact:** No need for first aid is anticipated. Wash off with water if necessary.

**Inhalation:** No need for first aid is anticipated under normal usage (single exposure of small amount) .

**Ingestion:** Accidental ingestion at a level high enough to be dangerous to health is unlikely. Rinse mouth with water. Obtain medical attention if symptoms appear or if large quantities have been ingested.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## **Section 5 -Extinguishing media**

### **5.1 Extinguishing media**

**Suitable extinguishing media:** Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream as may scatter or spread fire. Use water fog to cool the unopened containers involved in fire.

### **5.2 Special hazards arising from the substance or mixture**

Containers may explode when heated. Gives off irritating fumes (or gases) and combustion product(Carbon oxides, etc.) in a fire.

### **5.3 Advice for firefighters**

Evacuate personnel to safe areas. Fight fire from a safe distance. Wear self-contained breathing apparatus and suitable protective equipment for firefighting.

### **5.4 Further information**

No data available.

## **Section 6 - Accidental Release Measures**

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Eliminate all sources of ignition.

### **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

### **6.3 Methods and materials for containment and cleaning up:**

Clear up spills immediately and dispose of waste safely.

## **Section 7 - Handling and Storage**

### **7.1 Precautions for safe handling:**

Use according to its identified usage.

Avoid contact with eyes.

Keep away from heat/sparks/open flames/hot surfaces – No smoking

For more precautions measure see section 2.

### **7.2 Conditions for safe storage, including any incompatibilities:**

Storage area should be cool, dry, well ventilated area. Keep container tightly closed. Store away from sources of heat or ignition.

**Section 8 - Exposure Controls, Personal Protection****8.1 Exposure Limits:**

Substance	CAS No.	OSHA PEL	NIOSH REL	ACGIH
Ethanol	64-17-5	1000 ppm; 1900 mg/cm <sup>3</sup>	1000 ppm	STEL: 1000 ppm

**8.2 Exposure controls**

**Engineering Control:** General fire protection requirements.

**Personal protective equipment:**

**Respiratory Protection:** Not required under normal condition.

**Eyes Protection:** Not required under normal condition.

**Body Protection:** Not required under normal condition.

**Hands Protection:** Not required under normal condition.

**Other Protections:** Not required under normal condition.

**Section 9 - Physical and Chemical Properties**

Information on basic physical and chemical properties	
Appearance	Transparent liquid
Color	Colorless
Odor	Winey fragrance
pH	5-7
Melting point/freezing point	-114.1°C.
Initial boiling point and boiling range	Not available.
Flash point	<23°C (close cup)-lit..
Evaporation rate	Not available.
Flammability	Highly flammable liquid and vapor
Upper explosive limit % (V/V)	3.3% -Ethanol
Lower explosive limit % (V/V)	15% -Ethanol
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.

Partition coefficient: n-octanol/water	Not available.
Ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

## Section 10 - Stability and Reactivity

**10.1 Stability:** Stable under recommended storage conditions.

**10.2 Conditions to Avoid:** Heat, flames and mars.

**10.3 Incompatible materials:** Alkali metals, Oxidizing agents.

**10.4 Hazardous Decomposition Products:** Other decomposition products- no data available. In the event of fire:see section 5.

**10.5 Possibility of hazardous reactions:** None hazardous reactions known under normal condition.

## Section 11 - Toxicological Information

### Acute Toxicity:

Substance	CAS No.	LD50 oral - rat	LC50 inhalation - rat	LD50 skin - rabbit
Ethanol	64-17-5	7060mg/kg	20000ppm/10H	15800mg/kg

### Skin Corrosion/Irritation:

Ethanol(CAS#64-17-5):

Skin - Rabbit

Result: No skin irritation - 24 h

(OECD Test Guideline 404)

### Serious Eye Damage/Eye Irritation:

Ethanol(CAS#64-17-5):

Eyes - Rabbit

Result: Moderate eye irritation

(OECD Test Guideline 405)

### Respiratory or Skin Sensitization

Based on available data, the classification criteria are not met.

### Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity:

None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA.

### Reproductive Toxicity:

Based on available data, the classification criteria are not met.

### Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):

No known human health effects upon single exposure.

### Specific Target Organ Toxicity - Repeated

No known human health effects upon repeated exposure.

**Exposure (Globally Harmonized System):**

**Aspiration Hazard:** Based on available data, the classification criteria are not met.

**Potential Health Effects:** Not expected to cause serious or immediate health effects. May cause slight irritation to wounded skin. Causes serious eye irritation if liquid get into eyes.

**Section 12 - Ecological Information**

**12.1 Toxicity**

No known significant effects or critical hazards under normal usage.

**12.2 Persistence and degradability**

Ethanol(CAS#64-17-5):

Biodegradability Result: 95 % - Readily biodegradable

**12.3 Bioaccumulative potential**

Ethanol(CAS#64-17-5):

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No ecological considerations under normal usage. Normal dilution into the sewer, sewage purification system is expected to be harmless to the ecological environment.

**Section 13 - Disposal Considerations**

**Waste treatment methods**

**Product**

Small quantity can be disposed as household waste. As for big quantity, Observe according to the national and local related regulations.

**Contaminated packaging**

Dispose of as unused product after empty.

**Section 14 - Transport Information**

**14.1 UN-Number**

ADR/RID/ADN, IMDG, IATA 1170

**14.2 UN proper shipping name**

ADR/RID/ADN, IMDG, IATA ETHANOL SOLUTION

**14.3 Transport hazard class(es)**

ADR/RID/ADN, IMDG, IATA

Class 3

Label

**14.4 Packing group**

ADR/RID/ADN, IMDG, IATA II

**14.5 Environmental hazards** Marine pollutant(Yes/No): No**14.6 Special precautions for user** No data available.**14.7 Transport in bulk according to Annex 1 of Marpol and the IBC Code** Not applicable.**Section 15 - Regulatory Information****EU Regulations****Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Flammable liquids, category 2

Eye irritation, categories 2A

**US Regulations****OSHA:** OSHA Hazard Communication Standard Status: This product is considered to be a hazardous substance under OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200.**USA CERCLA:**

CERCLA Reportable Quantity (RQ): This product has not been assigned a reportable quantity.

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard



**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16 - Additional Information****16.1 Reference**

- |     |  |   |
|-----|--|---|
| [1] | IPCS:The International Chemical Safety Cards (ICSC)            | website: <a href="http://www.ilo.org/dyn/icsc/showcard.home">http://www.ilo.org/dyn/icsc/showcard.home</a>  |
| [2] | IARC   | website: <a href="http://www.iarc.fr/">http://www.iarc.fr/</a>  |
| [3] | OECD: The Global Portal to Information on Chemical Substances, | website:<br><a href="http://www.echemportal.org/echemportal/index?pageID=0&amp;request_locale=en">http://www.echemportal.org/echemportal/index?pageID=0&amp;request_locale=en</a> |
| [4] | CAMEO Chemicals,   | website: <a href="http://cameochemicals.noaa.gov/search/simple">http://cameochemicals.noaa.gov/search/simple</a>  |
| [5] | NLM:ChemIDplus,  | website:<br><a href="http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp">http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp</a>   |
| [6] | EPA: Integrated Risk Information System,                       | website: <a href="http://cfpub.epa.gov/iris/">http://cfpub.epa.gov/iris/</a>  |
| [7] | U.S. Department of Transportation:ERG,                         | website: <a href="http://www.phmsa.dot.gov/hazmat/library/erg">http://www.phmsa.dot.gov/hazmat/library/erg</a>  |
| [8] | Germany GESTIS-database on hazard substance                    | website: <a href="http://gestis-en.itrust.de/">http://gestis-en.itrust.de/</a>  |

**16.2 Abbreviations and acronyms**

pH	Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline
OSHA	Occupational Safety and Health Administration
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
ACGIH	The American Conference of Governmental Industrial Hygienists
UN	The United Nations
ADR	Agreement on Dangerous Goods by Road
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PC-STEL	Short term exposure limit
PC-TWA	Time Weighted Average
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
NOEC	No Observed Effect Concentration
EC50	Effective Concentration 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative

**16.3 Disclaimer**

-This safety data sheet was prepared in accordance with UN GHS Rev.7, The EU CLP REGULATION (EC) No 1272/2008,

and US OSHA Hazard Communication Standards (29 CFR 1910.1200).

-The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product

**16.4 Information on revision**

MSDS Creation Date: March 24, 2020

MSDS Revision Date: -

Reason For Revision: -

MSDS Edition: 1.0

\*\*\*End of MSDS\*\*\*