

## SAFETY DATA SHEET

HAND SANITIZER

EFFECTIVE DATE: 12 FEBRUARY 2020

Doc. No: CLP/TCH/SDS/P153 REV 00

### 1. IDENTIFICATIONS OF THE CHEMICAL PRODUCT AND THE COMPANY UNDERTAKING

**Product Name** : HAND SANITIZER

**Recommended Use and Restrictions of Use** : Hand sanitizer

**Company Identifications** : CLP International Pte Ltd  
No. 2, Tanjong Penjuru  
Singapore 609017  
Tel : +65 6265 2788  
Fax: +65 6265 7501

### 2. HAZARDS IDENTIFICATION

**GHS Classification:**

Flammable liquids : Category 3  
Eye Irritation : Category 2B

**GHS Label Elements:**

**Pictograms:**



**Signal Word:** Warning

**Hazard Statements:**

H226 - Flammable liquid and vapour  
H320 - Causes eye irritation

**Precautionary Statements:**

**Prevention**

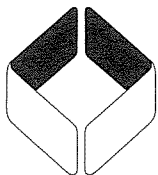
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed

**Response**

P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P337+P313 - If eye irritation persists get medical advice/attention

**Storage**

P403+P235 - Store in a well ventilated place. Keep cool.



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### Disposal

P501 - Dispose of contents/container in accordance with applicable local/regional/national/international regulations

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Composition	%W/W	CAS No.
Ethanol	40 - 70	64-17-5
Isopropyl Alcohol	1 - 5	67-63-0

### 4. FIRST AID MEASURES

**Eye Contact** : Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Continue rinsing. Get medical attention.

**Skin** : Rinse with water. Get medical attention if irritation develops and persists

**Inhalation** : Remove person to fresh air. Get medical attention if irritation develops or persists

**Ingestion** : Do not induced vomiting. Rinse mouth with water. Get medical attention if symptoms occur.

### 5. FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable Extinguishing Media:

Do not use water jet as an extinguisher, as this will spread the fire.

#### Special Hazards Arising From the Substance or Mixture:

Fire Hazard - Keep away from heat and sources of ignition.  
Flash back possible over considerable distance.  
Beware of vapors accumulating to form explosive concentrations.  
Vapors can accumulate in low areas.

#### Hazardous Combustion Products:

Carbon oxides, nitrogen oxides, sulfur oxides and oxides of phosphorus

#### Special Protective Equipment and Precautions for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

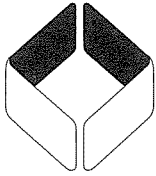
### 6. ACCIDENTAL RELEASE MEASURES

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

Remove all sources of ignition. Refer to protective measures listed in sections 7 and 8.

#### Environmental Precautions:

Avoid discharge into drains, water courses or onto the ground



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### Methods and Materials for Containment and Cleaning Up:

Eliminate all ignition sources if safe to do so. Stop leak if safe to do so.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water.

For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling:

Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors)

### Storage:

Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION / ENGINEERING CONTROLS:

Exposure limits in the air of the workplace, biological limit values:

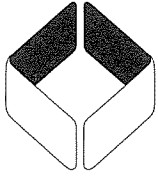
Component	CAS No	Form of exposure	Permissible Concentration	Source
Ethanol	64-17-5	TWA	1000 ppm 1900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1000 ppm 1900 mg/m <sup>3</sup>	OSHA Z1
		STEL	1000 ppm	ACGIH
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m <sup>3</sup>	NIOSH REL
		STEL	500 ppm 1225 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA Z1

### Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal Protective Equipment (PPE):

Skin and Body : No special protective equipment required  
 Eyes : No special protective equipment required  
 Respiratory : No special protective equipment required  
 Hygiene Measures : No specific measures identified



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear Liquid
Colour	: Colorless
Odor	: Alcoholic
Odor Threshold	: No data available
pH	: No data available
Initial Boiling Point And Boiling Range	: No data available
Freezing Point	: No data available
Flash Point	: 27°C (Approximate)
Evaporation Rate	: No data available
Flammability (Solid, Gas)	: No data available
Auto-Ignition Temperature	: No data available
Decomposition Temperature	: No data available
Explosion Limits	: No data available
Vapour Pressure	: No data available
Vapour Density	: No data available
Density	: 0.860 kg/l (25 °C)
Solubility(ies)	: No data available
Partition Coefficient - N-Octanol/ Water	: No data available
Viscosity	: No data available
Explosive Properties	: No data available
Oxidising Properties	: The substance or mixture is not classified as oxidizing

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	: Stable under normal conditions
<b>Conditions to Avoid</b>	: Heat, flames and sparks
<b>Incompatible Materials</b>	: None known
<b>Possibility of Hazardous Reactions</b>	: No dangerous reaction known under conditions of normal use.
<b>Hazardous Decomposition Products</b>	: Carbon oxides, nitrogen oxides (NO <sub>x</sub> ), sulfur oxides, oxides of phosphorus

### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

#### Acute Toxicity

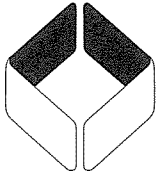
##### Ethanol

Dermal LD50 : 15 800 mg/kg (Rabbit)

##### Isopropyl Alcohol

Dermal LD50 : 12 870 mg/kg (Rabbit)

**Serious eye damage/irritation** : No data available



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**Skin corrosion/ irritation** : No data available  
**Skin/Respiratory sensitization** : No data available  
**Germ cell mutagenicity** : No data available  
**Carcinogenicity** : No data available  
**Reproductive toxicity** : No data available  
**Specific target organ toxicity—single exposure** : No data available  
**Specific target organ toxicity—repeated exposure** : No data available  
**Aspiration Hazard** : No data available

### 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity:**

Fish : Ethanol  
LC50 – 11000 mg/l (96hr)

Isopropyl Alcohol  
LC50 – 9640 mg/l (96hr)

Daphnia and/or other aquatic invertebrates : No data available

Algae : No data available

**Mobility in Soil:**

No data available

**Bio accumulative potential:**

No data available

**Persistence/degradability:**

No data available

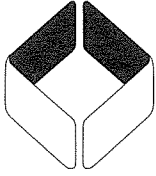
**Results of PBT and vPvB assessment:**

No data available

### 13. DISPOSAL CONSIDERATIONS

**Product**

Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.



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### 14. TRANSPORT INFORMATION

UN Number : 1170  
UN Proper Shipping Name : Ethanol Solution  
Packing Group : III  
Class : 3  
Marine Pollutant : No

### 15. REGULATORY INFORMATION

#### Applicable National Regulations:

- 1) Standards on Hazard communication for hazardous chemicals and dangerous goods
  - SS 586: Part 1: 2014-Transport and storage of dangerous goods
  - SS 586: Part 2: 2014-GHS of classification and labelling of chemicals
  - SS 586: Part 3: 2008(2014)-Preparation of safety data sheet
- 2) MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations
  - This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations
- 3) NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations
  - This product is not subject to control under this Acts/Regulations
- 4) SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations
  - This product is subjected to the requirement of this Acts/Regulations

### 16. OTHER INFORMATION

The information is based on our present knowledge. However, this shall not constitute a guarantee for any product features and shall not establish a legally valid contractual relationship. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist