

SAFETY DATA SHEET

SURFACE DISINFECTANT EFFECTIVE DATE: 13 FEBRUARY 2020 Doc. No: CLP/TCH/SDS/P154 REV 00

1. IDENTIFICATIONS OF THE CHEMICAL PRODUCT AND THE COMPANY UNDERTAKING

Product Name : SURFACE DISINFECTANT

Recommended Use and Restrictions of Use : Surface disinfectant

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

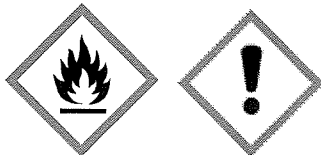
2. HAZARDS IDENTIFICATION

GHS Classification:

Flammable liquids : Category 2
Eye Irritation : Category 2A
Specific target organ toxicity (Single exposure) : Category 3

GHS Label Elements:

Pictograms:



Signal Word: DANGER

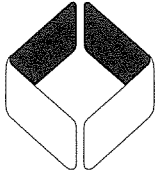
Hazard Statements:

H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness and dizziness

Precautionary Statements:

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting/equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray



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P271 - Use only outdoors or in a well-ventilated area

Response

- P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
- 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
- P308+P311 - If exposed or concerned: Call a POISON CENTER/ doctor

Storage

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

Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Composition	%	CAS No.
Isopropyl Alcohol	60 - 80	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 plenty of water. Get medical attention if irritation develops and persists
- Inhalation** : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Ingestion** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage. Get medical attention immediately.

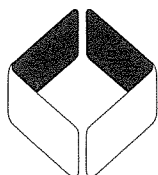
5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media:

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



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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

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

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.

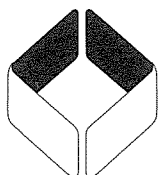
7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Wash hands thoroughly after handling. Open drum carefully as content may be under pressure.

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.



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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
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		STEL	500 ppm 1225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z1

Appropriate engineering controls:

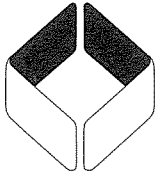
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal Protective Equipment (PPE):

- Skin and Body : No special protective equipment required
Eyes : No special protective equipment required
Respiratory : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures : Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

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	: 21°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	: 0.843 kg/l (25 °C)
Solubility(ies)	: No data available
Partition Coefficient - N-Octanol/ Water	: No data available



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Viscosity : No data available
Explosive Properties : No data available
Oxidising Properties : The substance or mixture is not classified as oxidizing

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal conditions
Conditions to Avoid : Heat, flames and sparks
Incompatible Materials : None known
Possibility of Hazardous Reactions : No dangerous reaction known under conditions of normal use.
Hazardous Decomposition Products : Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

Isopropyl Alcohol

Dermal LD50 : 12 870 mg/kg (Rabbit)
Oral LD50 : 5840 mg/kg (Rat)
Inhalation LC50 : 30 mg/L (Rat, 4 h)

Serious eye damage/irritation : Mild eye irritation
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

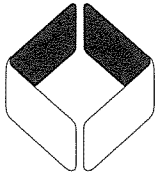
12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

Fish : Isopropyl Alcohol
LC50 – 9640 mg/l (96hr, Pimephales promelas(Fathead Minnow))
Daphnia and/or other aquatic invertebrates : Isopropyl Alcohol
LC50 – > 10000 mg/l (Daphnia magna (Water flea))

Mobility in Soil:

No data available



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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.

14. TRANSPORT INFORMATION

UN Number : 1219
UN Proper Shipping Name : Isopropanol
Packing Group : II
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