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cleaner environment

## ***ALCOHOL RUB*** **Hand Sanitizer**

### **Product Description**

***ALCOHOL RUB*** is a highly active hand sanitizer formulated for cleaning and disinfecting of hands. Its neutral pH makes it safe on skin and leaves a moisturized and fresh sensation after use. With weight of more than 70% in Ethanol, ***ALCOHOL RUB*** kills 99.9% of germs.

### **Areas of Use**

***ALCOHOL RUB*** is suitable for use in all commercial sectors. It is ideal for hotels, country clubs, offices, shopping malls, cinemas and suitable for light industrial environments.

### **Special Features**

- Fortified with emollient for moisturizing hands.
- Neutral pH makes it safe on skin and hands.
- Fully biodegradable.

### **Directions for use**

- Apply a few drops of ***ALCOHOL RUB***.
- Rub hands together until liquid has evaporated

### **Precaution**

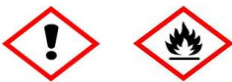
Avoid ingestion and eye contact.

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

<b>Product Identifier:</b> ALCOHOL RUB	<b>Supplier:</b> Klenco (Singapore) Pte Ltd. <b>Address:</b> 18 Gul Crescent, Singapore 629527 <b>Department:</b> Chemical <b>Person in Charge:</b> Chemist
<b>Other means of identification:</b> Hand Sanitizer	<b>Phone:</b> (65) 6862 3388 <b>Fax:</b> (65) 6861 7575 <b>Email:</b> info@klenco-asia.com <b>Emergency contact:</b> (65) 6862 3388 Ext 249
<b>Date of SDS:</b> 25 March 2020	
<b>Recommended use and restrictions:</b> Alcohol Rub is suitable for use in all commercial sectors. It is ideal for hotels, country clubs, offices, shopping malls, cinemas and suitable for light industrial environments.	

## SECTION 2 - HAZARDS IDENTIFICATION

<b>GHS classification:</b>	Flammable liquid: Category 3; Acute toxicity: Category 4 Eye irritation: Category 2
<b>GHS label elements:</b> Pictogram:	Signal words: Warning
	
<b>Hazard statements:</b>	H226: Flammable liquid H302: Harmful if swallowed H320: Causes eye irritation
<b>Precaution statements:</b>	P102: Keep out of reach of children. P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking. P262: Do not get in eyes.

## SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Ethyl Alcohol	> 70 %	CH <sub>3</sub> CH <sub>2</sub> OH	64-17-5	200-578-6
Hydroxypropyl Methyl Cellulose	< 3.0 %	C <sub>56</sub> H <sub>108</sub> O <sub>30</sub>	9004-65-3	NA
Glycerine	< 1.0%	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	56-81-5	200-289-5
Benzalkonium Chloride	0.1 – 0.2 %	C <sub>22</sub> H <sub>48</sub> ClN	7173-51-5	230-525-2
Water	> 20.0 %	H <sub>2</sub> O	7732-18-5	231-791-2

## SECTION 4 – FIRST AID MEASURES

<b>Inhalation:</b>	Move to area of fresh air. If breathing has stopped, artificial respiration should be started. Oxygen may be administered if available. Call a physician. Never give anything by mouth to an unconscious person.
<b>Skin contact:</b>	Wash with large amounts of soap and water. If irritation persists, consult a physician.
<b>Eye contact:</b>	Flush with cool water for at least 15 minutes. Then consult a physician immediately if irritation persists.
<b>Ingestion:</b>	Do not induce vomiting. Dilute by drinking water. Call a physician immediately.
<b>Notes to Physicians:</b>	Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

## SECTION 5 – FIRE-FIGHTING MEASURES

<b>Suitable fire-extinguishing media:</b>	Water, dry chemical, carbon dioxide and foam.
<b>Specific hazards arising from the chemical:</b>	Burning can produce carbon dioxide and/or carbon monoxide.
<b>Special protective actions for fire fighters:</b>	Fire fighters may be exposed to the products of combustion should wear a self-contained breathing apparatus with full protective equipment.

## SECTION 6 - ACCIDENTIAL RELEASE MEASURE

<b>Personal precautions, protective equipment, and emergency measure:</b>	Use proper protective equipment (chemical protection suit, gloves, goggles, mask, etc).
<b>Environmental precautions:</b>	Chemical substance should not be released into the environment (water, soil).
<b>Methods and materials for containment and cleaning up:</b>	Stop spill at source. Contain material, as necessary, with dike or barrier. Mop, shovel or absorb with inert material and place in sound containers. Rinse remaining residue with excess water. Prevent run-off. Cover spills with absorbent clay, sawdust or inert material and place in closed chemical waste containers. Dispose according to applicable local, state and federal regulations.

## SECTION 7 - HANDLING AND STORAGE

<b>Precaution for safe handling:</b>	Wash thoroughly after handling, especially before eating and drinking. Wash contaminated goggles, face-shield, and gloves. Launder contaminated clothing before re-use.
<b>Conditions for safe storage, including any incompatibilities:</b>	This product is a flammable liquid. Store in cool, dry, well-ventilated area at room temperature away from any source of ignition. Do not re-use empty container for food, clothing or products for human or animal consumption or where skin contact can occur.

<b>SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION</b>	
<b>Control parameters/ Occupational exposure limits:</b>	ACGIH - TLV: No hazardous ingredients
<b>Appropriate engineering control measures:</b>	Local exhaust ventilation usually required, when vapours, mist, or dusts can be released.
<b>Personal Protection:</b>	Normally not required. Safety glasses / goggles can be worn if splashing is anticipated.
<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Appearance &amp; Odour:</b>	Clear liquid with alcohol odour.
<b>Solubility in water:</b>	Complete.
<b>Boiling Point:</b>	~ 80 °C
<b>Specific Gravity:</b>	0.90 +/- 0.05 g/cm <sup>3</sup>
<b>PH:</b>	7.5 +/- 0.5
<b>Flash Point (T.C.C.):</b>	~25°C <b>Flammable Limits - Upper:</b> 19 % <b>Lower:</b> 3.3 %
<b>Vapour Pressure:</b>	Not determined
<b>Vapour Density:</b>	1.6 (Air = 1)
<b>SECTION 10 - STABILITY AND REACTIVITY</b>	
<b>Reactivity/ In compatible materials:</b>	Oxidizers chlorine and Hydrogen Peroxide. Acids
<b>Chemical stability:</b>	Stable under normal temperature and pressure.
<b>Possibility of hazardous reaction:</b>	Will not occur.
<b>Condition to avoid:</b>	Not applicable
<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>	
<b>Acute toxicity: Oral:</b>	Repeated ingestion of product may result in liver damage. Oral LD 50 (rat): > 7000 mg/kg
<b>Eye irritation:</b>	This product contains ingredient ethanol, which is an eye irritant.
<b>SECTION 12 – ECOLOGICAL INFORMATION</b>	
<b>Persistence and degradability:</b>	Product degrades readily by action of microorganism.
<b>Bioaccumulative potential:</b>	It is soluble in water and does not bio-accumulate.
<b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>	
<b>Disposal method:</b>	Dispose off in an approved waste facility according to local regulations. It is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) Re-cycle or rework if feasible (2) Incinerate at an authorized facility (3) Treat at an acceptable waste treatment facility.
<b>SECTION 14 – TRANSPORT INFORMATION</b>	
This material is non-regulated and no special requirement is necessary.	
UN No. 1170	
Shipping Name: Ethanol Solution	
Hazard Class: 3	
Packing Group : III	
HS Code: 34021200	
<b>SECTION 15 – REGULATORY INFORMATION</b>	
<b>International regulation:</b>	
Classification:	This product has not been allocated any classification.
Risk phrases:	R10 Flammable R22 Harmful if swallowed R36 Irritating to eyes
Safety phrases:	S02 Keep out of reach of children S16 Keep away from sources of ignition – No Smoking S25 Avoid contact with eyes
<b>SECTION 16 – OTHER INFORMATION</b>	
<b>Hazard Rating: HMIS (Hazardous Materials Information System)</b>	
<b>HEALTH:</b>	1
<b>FLAMMABILITY:</b>	2
<b>REACTIVITY:</b>	0
0=Minimal, 1=Slight, 2 = Moderate, 3=Serious, 4=Extreme	

**NOTICE:** SDS is correct at date of publication. It is not necessarily fully adequate for every circumstance, nor to be confused with or followed in violation of applicable laws or insurance requirements. Health hazards and effects of over-exposure apply only to negligent handling or misuse of product in its concentrated form (as supplied); and not routine exposure to diluted product under normal use. No warranty, express or implied, of merchantability, fitness or accuracy of data is made; as such the vendor assumes no responsibility for injury or damages resulting from use of this product.