

better products cleaner environment

# HAND RUB Anti-Microbial Hand Sanitizer

# **Product Description**

**HAND RUB** is a no-rinse hand sanitizer based on a formulation that is alcohol free yet kills viruses and bacteria, making it extremely safe and comfortable to use. **HAND RUB** contains pH modifiers that neutralize the ionic bonds which hold the protein envelope enclosing hard-to-kill viruses, and plant oil extract molecules which then penetrate to destroy the nucleic acid and dissolve the virus in *seconds*. This breakthrough technology is the result of years of research funded by the British Government.

## Areas of Use

**HAND RUB** is highly recommended for use in offices, retail, restaurants, hotels, healthcare, schools, places of worship, food manufacturing assembly lines, even homes and wherever good personal hygiene is critical. It is especially useful where soap and running water is not conveniently accessible.

## **Special Features**

- Neutral pH and non-toxic
- Alcohol-free; does not sting grazed skin & leaves no "sticky feel" after use

• Liquid form provides effective skin coverage while foam discharge, if dispenser available, provides greater economy

• Pleasant fragrance leaves lingering scent after use.

# Kill List

Viruses

HIV, Caliciviruses (for Norovirus, Norwalk virus), Hepatitis B virus, Adenovirus, Herpes virus Type 1 & 2, Influenza virus Type A, Vaccinia virus, Feline Leukaemia viruses, Respiratory Syncytial virus, Rubella virus and **coronaviruses such as Infectious Bronchitis virus** 

Bacteria (as tested under EN1276)

Staphylococcus Aureus, E. Coli, Pseudomonas Aeruginosa, Enterococcus, Enterobacter Aerogenes & Cloacae, Salmonella Typhimurium, Proteus Mirabilis & Vulgaris, Chlamydia Psittaci.

Yeast and Fungi

Canadida Albicans, Aspergillus Niger

## **Directions of Use**

Apply and spread thoroughly over hands. Rub until dry, no rinsing necessary.

#### **Precautions**

For external use only. Non-corrosive & non-toxic, in unlikely event of discomfort due to inhalation, ingestion or contact with eyes, seek medical advice.

# SAFETY DATA SHEET

	<b>SECTION 1 - IDE</b>	ENTIFICATI	ON			
Product Identifier: HAND RUB			Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical			
Other means of identification: Hand Sanitizer			Person in Charge: Chemist			
Date of SDS: 11 February 2020			Phone: (65) 6862 3388			
<b>Recommended use and restrictions: HAND RUB</b> is ideal for use in offices, retail,			<b>Fax:</b> (65) 6861 7575			
restaurants, hotels, healthcare, schools, places of worship, food manufacturing			Email: info@klenco-asia.com			
assembly lines, even homes and wherever good personal hygiene is critical. It is			Emergency contact: (65) 6862 3388 Ext 249			
especially useful where soap and running water is not conveniently accessible.						
	TION 2 - HAZARD		CATIC	N		
GHS classification: Acute toxicity: Category 4 Eye irritation: Category 2	4;		0/110			
GHS label elements: Pictogram: Signal Words: Warning						
Hazard statements: H320: Causes e		Ţ				
	tainer tightly closed.					
	MPOSITION/ INF					
Chemical Identification	Component & Composition	Chemical Fo	rmula	CAS NO.	EC NO.	
Water	> 90.0 %	H20		7732-18-5	231-791-2	
Nonyl phenol ethoxylates	< 4.0 %	C <sub>33</sub> H <sub>60</sub> O <sub>10</sub>		26571-11-9	247-816-5	
Quaternary Ammonium Compound	0.4 %	C21H38NCI		68424-85-1	270-325-2	
Perfume	< 3.0 %	Mixture		NA	NA	
SE	ECTION 4 - FIRST	Γ AID MEAS	URES			
Inhalation: Move to area of fresh air.	If breathing has stoppe	d, artificial respir	ation sho	ould be started.	Oxygen may be	
administered if available. Call a physician. Never give anything by mouth to an unconscious person.						
Skin contact: Wash with large amounts					•	
Eye contact: Flush with cool water for at least 15 minutes. Then consult a physician immediately.						
Ingestion: Do not induce vomiting. Dilute by drinking water. Call a physician immediately.						
	ld be directed at preven		administe	ering to sympto	ms (if they	
	iding supportive therapy					
	FION 5 - FIRE-FIC	GHTING ME	ASURI	ES		
Suitable fire-extinguishing media:	Water, dry chemica					
Specific hazards arising from the chemical		Burning can produce carbon dioxide and/or carbon monoxide.				
Special protective actions for fire fighters:						
self-contained breathing apparatus with full protective equipment.						
SECTION	<b>16 - ACCIDENTIA</b>	AL RELEAS	E MEA	SURE		
Personal precautions, protective equipmer gloves, goggles, mask, etc).	nt, and emergency me	asure: Use prop	per protec	tive equipment	(chemical protection suit,	
Environmental precautions: Chemical subs	tance should not be rele	eased into the e	nvironme	nt (water, soil).		
Methods and materials for containment and Mop, shovel or absorb with inert material and absorbent clay, sawdust or inert material and and federal regulations.	d cleaning up: Stop sp place in sound containe	oill at source. Co ers. Rinse remair	ntain ma ning resid	terial, as neces ue with excess	water. Cover spills with	
SEC	TION 7 - HANDLI	NG AND ST	ORAG	E		
Precaution for safe handling: Wash thoroug face-shield, and gloves. Launder contaminated	ghly after handling, espe	ecially before ea	ting and	drinking. Wash	contaminated goggles,	
Conditions for safe storage, including any use empty container for food, clothing or produ	incompatibilities: Sto	re in cool, dry, w				
SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION						
Control parameters/ Occupational exposure limits: ACGIH - TLV: No hazardous ingredients						
Appropriate engineering control measures: Ventilation not required						
Personal Protection: Normally not required.	Safety glasses / goggle	es can be worn i	f splashir	ng is anticipated	l.	
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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES				
Appearance & Odour: Clear liquid with mild odour.				
Solubility in water: Complete.				
Boiling Point: 100 ° C				
<b>Specific Gravity:</b> 1.000 +/- 0.005 g/cm <sup>3</sup>				
<b>PH:</b> 7.0 +/- 0.5				
Flash Point (T.C.C.): None to boiling Flammable Limits - Upper: Not applicable Lower: Not applicable				
Vapour Pressure: Not determined				
Vapour Density: Not determined				
SECTION 10 - STABILITY AND REACTIVITY				
Reactivity/ In compatible materials: None				
Chemical stability: Stable under normal temperature and pressure.				
Possibility of hazardous reaction: Will not occur.				
Condition to avoid: Not applicable				
SECTION 11 – TOXICOLOGICAL INFORMATION				
Acute toxicity: Oral: LD 50 (rat): > 4500 mg/kg; This product contains no hazardous ingredients.				
SECTION 12 – ECOLOGICAL INFORMATION				
Persistence and degradability: Product degrades readily by action of microorganism.				
Bioaccumulative potential: It is soluble in water and does not bio-accumulate.				
SECTION 13 – DISPOSAL CONSIDERATIONS				
Disposal method: 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.				
SECTION 14 – TRANSPORT INFORMATION				
This material is non-regulated and no special requirement is necessary. HS Code: 34021200				
SECTION 15 – REGULATORY INFORMATION				
International regulation:				
Classification: This product has not been allocated any classification.				
Risk phrases: R00 None required				
Safety phrases: S07 Keep container tightly closed				
SECTION 16 – OTHER INFORMATION				
Hazard Rating: HMIS (Hazardous Materials Information System)				
HEALTH: 0				
FLAMMABILITY: 0				
REACTIVITY: 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.