

TEST REPORT: 7191245560-CHM20-01-RC

Date: 26 OCT 2020

Tel: +65 68851345 Fax: +65 67784301

Client's Ref:

Email: Randy.CHIN@tuvsud.com

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

SUBJECT

Antibacterial Activity Evaluation

CLIENT

KLENCO (SINGAPORE) PTE LTD
18 Gul Crescent
629527 Singapore
Singapore

Attn : Ms. Timothy Seah

SAMPLE SUBMISSION DATE/ TEST DATE

07 Oct 2020 / 09 Oct 2020

DESCRIPTION OF SAMPLE

One liquid sample labelled as follows was submitted.

Product Description : SANIFECT
Chemical Composition of product / Concentration of active ingredient : Benzalkonium chloride, Blue Dye (Colour Index 61585), Water/
Active concentration: 3.8%

METHOD OF TEST

Based on ASTM E1153-14

“Standard Test Method for Efficacy of Sanitizers Recommended for Inanimate, Hard, Nonporous Non-Food Contact Surfaces”.

The test microorganisms used were :

Pseudomonas aeruginosa (ATCC 15442)
Staphylococcus aureus (ATCC 6538)
Enterococcus hirae (ATCC 10541)
Escherichia coli K12 (NCTC 10538)

Dilution: 1 : 70

Water for dilution of product: Sterile distilled water

Organic load: No organic load was added

Neutralizer broth: DE Neutralizing Broth

Nonporous substrate: Borosilicate Glass Squares, 25mm x 25mm

Inoculation area: approximately 25mm x 25mm

Contact time of tes sample and inoculated substrate: 30 seconds



TÜV SÜD PSB

Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: enquiries@tuvsud.com
www.tuvsud.com/en-sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TUV®



PSB Singapore

Add value.
Inspire trust.

TEST REPORT: 7191245560-CHM20-01-RC
26 OCT 2020



PSB Singapore

RESULTS

Product Description : SANIFECT

Test Microorganism	Inoculum Count, CFU/ ml
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	5 000 000

Replicate/ Carrier	Organism surviving on Control Squares		
	CFU/ Carrier	Log ₁₀	Geometric Mean
1	390 000	5.59	410 000
2	370 000	5.57	
3	470 000	5.67	

Replicate/ Carrier	Organism surviving on Test Squares		
	CFU/ Carrier	Log ₁₀	Geometric Mean
1	Less than 20	Less than 1.30	12
2	30	1.48	
3	30	1.48	
4	Less than 20	Less than 1.30	
5	Less than 20	Less than 1.30	

Test Organism	Percent Reduction
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	99.997

TEST REPORT: 7191245560-CHM20-01-RC
26 OCT 2020

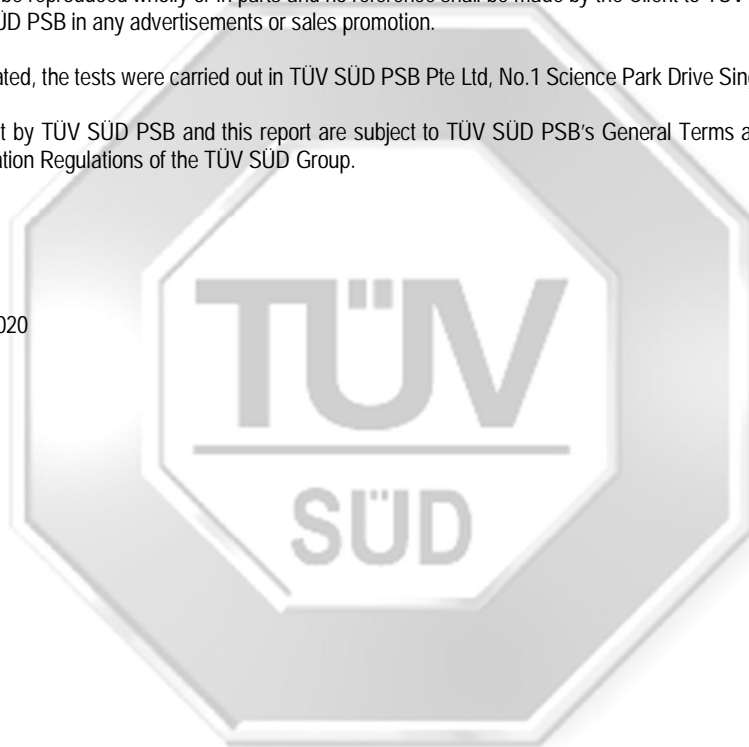


PSB Singapore

Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.
6. The tests carried out by TÜV SÜD PSB and this report are subject to TÜV SÜD PSB's General Terms and Conditions of Business and the Testing and Certification Regulations of the TÜV SÜD Group.

Effective 01 September 2020





better products
cleaner environment

SANIFECT

High Level Disinfectant

Product Description

SANIFECT is based on a new technology that kills viruses and bacteria but yet is non-toxic, alcohol free and neutral pH, making it safe for a wide range of applications methods including fogging. **SANIFECT** contains pH modifiers that neutralize ionic bonds of protein envelopes that hold hard-to-kill viruses together; and plant oil extract molecules that 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

SANIFECT High Level Disinfectant is ideal for disinfecting floors, walls, table-tops, door handles, hand railings, lift button panels, plant and kitchen equipment, toilets and all hard surfaces in homes, hotels, hospitals, train stations, offices, schools, factories and all private and public areas.

Special Features

- Alcohol and solvent free, ideal for fogging buildings.
- Non-toxic, safe to use even around patients.
- Kill List (at 1:10 dilution with water):
 - 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

Dilute 1:10 with water for proven disinfection results and complete user safety.

Cleaning

For hard surface disinfecting, apply with sprayer, cloth, mop or by machine scrubbing.

Fogging

Please observe the following standard precautions for fogging:

1. Remove absorbent material such as fabric from room being fogged
2. Use power supply from a point outside the area
3. Enclose room as much as possible and stop all mechanical ventilation
4. Ensure room is vacated during fogging
5. User should wear protective mask and clothing while fogging and until fog disperses
6. Fogging should continue until moisture starts to form on walls and other surfaces
7. After fog disperses, leave to dry or wipe off using cloth or disposable paper

Precautions

As with most chemical products, avoid ingestion and eye contact.

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION				
Product Identifier: SANIFECT		Manufacturer: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Phone: (65) 6862 3388 Fax: (65) 6861 7575		
Other means of identification: High Level Disinfectant		Distributor: KLENCO (MALAYSIA) SDN BHD		
Date of SDS: 11 February 2020		Address: 12, Jalan Sungai Jeluh 32/189 Bukit Naga Seksyen 32 40460 Shah Alam, Selangor Malaysia Phone: (603) 5167 2226		
Recommended use and restrictions: SANIFECT High Level Disinfectant is ideal for disinfecting floors, walls, table-tops, door handles, hand railings, lift button panels, plant and kitchen equipment, toilets and all hard surfaces in homes, hotels, hospitals, train stations, offices, schools, factories and all private and public areas.				
SECTION 2 - HAZARDS IDENTIFICATION				
GHS classification: Acute toxicity: Category 4; Skin irritation: Category 2, Eye irritation: Category 2				
GHS label elements: Pictogram:  Signal Words: Warning				
Hazard statements: H315: Causes skin irritation H320: Causes eye irritation				
Precaution statements: P233: Keep container tightly closed.				
SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS				
Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Water	> 90.0 %	H2O	7732-18-5	231-791-2
Quaternary Ammonium Compound	3.8%	C21H38NCl	68424-85-1	270-325-2
Blue Dye	< 0.01 %	-	NA	NA
SECTION 4 – FIRST AID MEASURES				
Inhalation:	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.			
Skin contact:	Wash with large amounts of soap and water. If irritation persists, consult a physician.			
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.			
Notes to Physicians:	Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.			
SECTION 5 – FIRE-FIGHTING MEASURES				
Suitable fire-extinguishing media:	Water, dry chemical, carbon dioxide and foam.			
Specific hazards arising from the chemical:	Burning can produce carbon dioxide and/or carbon monoxide.			
Special protective actions for fire fighters:	Fire fighters may be exposed to the products of combustion should wear a self-contained breathing apparatus with full protective equipment.			
SECTION 6 - ACCIDENTAL RELEASE MEASURE				
Personal precautions, protective equipment, and emergency measure: Use proper protective equipment (chemical protection suit, gloves, goggles, mask, etc).				
Environmental precautions: Chemical substance should not be released into the environment (water, soil).				
Methods and materials for containment and cleaning up: 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. Cover spills with absorbent clay, sawdust or inert material and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.				
SECTION 7 - HANDLING AND STORAGE				
Precaution for safe handling: Wash thoroughly after handling, especially before eating and drinking. Wash contaminated goggles, face-shield, and gloves. Launder contaminated clothing before re-use.				
Conditions for safe storage, including any incompatibilities: Store in cool, dry, well-ventilated area at room temperature. Do not re-use empty container for food, clothing or products for human or animal consumption or where skin contact can occur.				
SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION				
Control parameters/ Occupational exposure limits: ACGIH - TLV: None required				
Appropriate engineering control measures: Normal ventilation is sufficient				
Personal Protection: Normally not required. Safety glasses / goggles can be worn if splashing is anticipated.				

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Odour:	Clear blue liquid with mild odour.
Solubility in water:	Complete.
Boiling Point:	100 ° C
Specific Gravity:	1.000 +/- 0.005 g/cm ³
PH:	7.5 +/- 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:	Do not mix with other anionic base chemicals
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): > 4500mg/kg This product does not contain any known 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.