



peppy*pure*

ANTI-BACTERIAL HAND GEL EU TEST REPORTS

HOSPITAL GRADE AND COMPLIANT WITH 10 EU STANDARDS



EFFECTIVE. Kills 99.99%
of bacteria & germs.



NATURAL. 75% alcohol,
brewed from sugarcane.



KIND. Vegan & not tested
on animals.

Menu

1-Evaluation of Bactericidal Activity Test EN1500

2-Evaluation of Bactericidal Activity Test EN1276

3-Ethanol (Alcohol) Content Test

4-Methanol Content Test

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9-Toxicological Risk Assessement

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1-Evaluation of Bactericidal Activity Test EN1500

Customer Details: Peppy Group (UK) Ltd
Customer Contact Name: Damon Zheng

Purchase Order Number: N/A

Date of Report: 13/08/2020
Date on Test: 06/08/2020
Date Received: 06/08/2020

MelBec Reference Number: 19279
No. of samples: 1

Sample Details:

Manufacturer/Supplier: Peppy Group (UK) Ltd
Name of Product: Anti-bacterial Hand Gel
Storage: Room Temperature

Experimental Conditions as outlined in the standard:

Neutraliser: BU Broth
Bacterial Strains: *E. coli* K12 NCTC 10538
Product Dilution: Neat (as supplied)
Test Product Application: 5ml applied to dry hands. Hands rubbed for 60 seconds.
Incubation Temperature: 36°C ± 1°C

Conclusion:

The test product was not inferior to the reference product and hence has met the requirements of EN 1500.

Test Report for BS EN 1500:2013

Results:
Inoculum (N) – 3.20 x 10⁸ cfu/ml

Reference Handrub: Reference (60% Propan-2-ol)

Subject	Hand	Mean Pre Value	Mean L+R	Mean Log Pre Value	Mean Post Value	Mean L+R	Mean Log Post Value	Log Reduction Factor
1	L	1.88E+06	1.93E+06	6.28	8.20E+02	3.41E+03	3.53	2.75
	R	1.97E+06			6.00E+03			
2	L	8.90E+05	5.90E+05	5.77	2.48E+03	1.94E+03	3.29	2.48
	R	2.90E+05			1.39E+03			
3	L	1.17E+06	1.03E+06	6.01	2.89E+02	6.25E+02	2.80	3.22
	R	8.90E+05			9.60E+02			
4	L	2.19E+06	1.91E+06	6.28	1.18E+03	1.13E+03	3.05	3.23
	R	1.62E+06			1.07E+03			
5	L	4.60E+06	3.01E+06	6.48	3.30E+03	1.73E+03	3.24	3.24
	R	1.42E+06			1.60E+02			
6	L	7.70E+06	7.60E+06	6.88	8.30E+02	8.04E+02	2.91	3.98
	R	7.50E+06			7.78E+02			
7	L	3.40E+05	1.10E+06	6.04	5.10E+02	8.35E+02	2.92	3.12
	R	1.85E+06			1.16E+03			
8	L	7.80E+06	4.11E+06	6.61	3.30E+03	3.30E+03	3.52	3.09
	R	4.10E+05			3.30E+03			
9	L	3.90E+05	3.80E+05	5.58	3.80E+01	4.95E+01	1.69	3.89
	R	3.70E+05			6.10E+01			
10	L	2.29E+06	2.47E+06	6.39	2.27E+02	7.94E+02	2.90	3.49
	R	2.64E+06			1.36E+03			
11	L	2.40E+06	2.03E+06	6.31	1.39E+02	1.92E+02	2.28	4.02
	R	1.65E+06			2.45E+02			
12	L	9.80E+05	2.74E+06	6.44	1.18E+03	1.04E+03	3.02	3.42
	R	4.50E+06			9.00E+02			
13	L	1.76E+06	1.35E+06	6.13	4.40E+02	4.25E+02	2.63	3.50
	R	9.40E+05			4.10E+02			
14	L	8.80E+06	6.80E+06	6.83	1.84E+03	1.87E+03	3.27	3.56
	R	4.80E+06			1.90E+03			
15	L	5.80E+06	3.84E+06	6.58	9.00E+01	1.45E+03	3.16	3.42
	R	1.87E+06			2.80E+03			
16	L	2.29E+06	2.70E+06	6.43	7.90E+02	1.90E+03	3.28	3.15
	R	3.10E+06			3.00E+03			
17	L	2.90E+06	2.36E+06	6.37	4.10E+02	1.66E+03	3.22	3.15
	R	1.82E+06			2.90E+03			
18	L	1.33E+06	1.20E+06	6.08	5.80E+03	3.15E+03	3.50	2.58
	R	1.07E+06			5.00E+02			

Imperial House, Kingsway, Haslingden, Rossendale, BB4 4QJ

info@melbecmicrobiology.co.uk Tel – 01706 214 492 www.melbecmicrobiology.co.uk

Test Product: Anti-bacterial Hand Gel

Subject	Hand	Mean Pre Value	Mean L+R	Mean Log Pre Value	Mean Post Value	Mean L+R	Mean Log Post Value	Log Reduction Factor
1	L	1.76E+06	1.62E+06	6.21	1.23E+03	3.12E+03	3.49	2.72
	R	1.48E+06			5.00E+03			
2	L	1.78E+06	1.35E+06	6.13	2.80E+03	3.05E+03	3.48	2.64
	R	9.10E+05			3.30E+03			
3	L	1.96E+06	1.60E+06	6.20	1.08E+03	1.17E+03	3.07	3.14
	R	1.24E+06			1.26E+03			
4	L	1.68E+06	1.65E+06	6.22	1.58E+03	1.42E+03	3.15	3.07
	R	1.62E+06			1.26E+03			
5	L	3.30E+06	2.22E+06	6.35	7.10E+03	4.25E+03	3.63	2.72
	R	1.13E+06			1.40E+03			
6	L	5.40E+06	6.35E+06	6.80	2.67E+02	4.89E+02	2.69	4.11
	R	7.30E+06			7.10E+02			
7	L	3.90E+06	4.70E+06	6.67	8.10E+02	4.81E+03	3.68	2.99
	R	5.50E+06			8.80E+03			
8	L	8.10E+05	1.28E+06	6.11	1.20E+03	2.50E+03	3.40	2.71
	R	1.75E+06			3.80E+03			
9	L	3.70E+05	4.10E+05	5.61	1.12E+02	2.31E+02	2.36	3.25
	R	4.50E+05			3.50E+02			
10	L	1.48E+05	2.79E+05	5.45	6.50E+01	1.68E+02	2.22	3.22
	R	4.10E+05			2.70E+02			
11	L	2.70E+06	2.06E+06	6.31	1.10E+03	1.68E+03	3.22	3.09
	R	1.42E+06			2.25E+03			
12	L	1.99E+06	1.60E+06	6.20	1.33E+02	2.03E+02	2.31	3.90
	R	1.20E+06			2.72E+02			
13	L	6.30E+06	6.20E+06	6.79	1.61E+03	5.06E+03	3.70	3.09
	R	6.10E+06			8.50E+03			
14	L	7.70E+06	5.40E+06	6.73	3.90E+03	4.40E+03	3.64	3.09
	R	3.10E+06			4.90E+03			
15	L	3.50E+06	2.61E+06	6.42	1.43E+02	2.72E+03	3.43	2.98
	R	1.71E+06			5.30E+03			
16	L	1.55E+05	6.33E+06	6.80	1.21E+03	2.26E+03	3.35	3.45
	R	1.25E+07			3.30E+03			
17	L	4.80E+06	5.25E+06	6.72	3.80E+02	5.55E+02	2.74	3.98
	R	5.70E+06			7.30E+02			
18	L	4.70E+06	3.56E+06	6.55	1.12E+03	1.20E+03	3.08	3.47
	R	2.42E+06			1.27E+03			

Summary:

	Mean of Pre-Values (Log)	Mean of Post-Values (Log)
Reference Product	6.29	2.78
Test Product	6.35	3.15

	Mean Log Reduction
Reference Product	3.51
Test Product	3.20

	RP-PP	PP-RP
Mean lg R RP	3.43	3.60
Mean lg R PP	3.04	3.36
Difference of Means	0.39	0.24

Absolute Difference of Differences ($0.39 - 0.24$) = 0.15
 (<2.0 hence acceptable)

Validations:

Neutraliser Control B (NV_B $3.0 \times 10^4 - 1.6 \times 10^5$ cfu/ml) – Inoculum 1.08×10^5 cfu/ml

Organism	Cfu/ml
<i>E. coli</i> K12	9.55×10^1

Method Validation C (NV $3.0 \times 10^2 - 1.6 \times 10^3$ cfu/ml) – Inoculum 9.20×10^2 cfu/ml

Product	<i>E. coli</i> (cfu/ml)
Test Product 19281	7.90×10^1

Verification:

A complete set of results from at least 18 volunteers is available.

The overall means of the Ig prevalues for RP and PP is at least 5.00.

There are no more than three individual Ig reductions less than 3.00 occurring in RP.

The absolute difference of mean differences between Ig reductions of RP and PP of group RP → PP and group PP → RP is less than 2.00.

Control of weighted mean counts: quotient $>5 < 15$.

N is between 1.5×10^8 and 5.0×10^8

NV is between 3.0×10^2 and 1.6×10^3

NV_B is between 3.0×10^4 and 1.6×10^5

B is $\geq 0.0005 \times NV_B$

C is $\geq 0.5 \times NV_0$

Reduction Factor Difference:

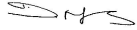
Subject	Reduction Factor Difference
1	0.91
2	1.09
3	0.56
4	-0.43
5	0.73
6	-0.26
7	0.09
8	0.71
9	0.13
10	-0.61
11	0.42
12	-0.36
13	0.50
14	0.66
15	0.50
16	0.31
17	0.11
18	0.61

Sorted Differences	Mean Pairwise Differences									
	1.09	0.91	0.73	0.71	0.66	0.61	0.56	0.50	0.50	0.42
1.09	1.09									
0.91	1.00	0.91								
0.73	0.91	0.82	0.73							
0.71	0.90	0.81	0.72	0.71						
0.66	0.87	0.78	0.69	0.69	0.66					
0.61	0.85	0.76	0.67	0.66	0.63	0.61				
0.56	0.83	0.73	0.65	0.64	0.61	0.59	0.56			
0.50	0.80	0.70	0.62	0.61	0.58	0.56	0.53	0.50		
0.50	0.79	0.70	0.61	0.61	0.58	0.55	0.53	0.50	0.50	
0.42	0.75	0.66	0.57	0.57	0.54	0.51	0.49	0.46	0.46	
0.31	0.70	0.61	0.52	0.51	0.48	0.46	0.44	0.41		
0.13	0.61	0.52	0.43	0.42	0.39	0.37	0.34			
0.11	0.60	0.51	0.42	0.41	0.38	0.36				
0.09	0.59	0.50	0.41	0.40	0.37					
-0.26	0.41	0.32	0.23	0.23						
-0.36	0.37	0.28	0.19							
-0.43	0.33	0.24								
-0.61	0.24									

The median is between the 9th and 10th value: $(0.50 + 0.42) / 2 = 0.46$

The mean pairwise differences that do not exceed the median (here 0.46) are computed. The critical values for Wilcoxon's matched pairs signed ranks test the entry for $n=18$ and a one-sided 0.025 level of significance, the critical value of 40 is found. Hence, $c = 40 + 1 = 41$. The 41st entry is 0.59. Hence, the Hodges-Lehmann upper one sided 97.5% confidence limit for the difference in lg reductions between RP and PP is 0.59 which is less than the agreed inferiority margin of 0.6 lg units. Therefore, the hypothesis of inferiority of PP (test product) is rejected and it can be concluded that the test preparation PP is not inferior to RP (reference product).

Report Authorised By:



Dawn Mellors

Technical Director

This is the end of the test report



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2-Evaluation of Bactericidal Activity Test EN1276

Test Report

No: GZCPCH200703979.2

Date: 2020-08-07

Client name: Peppy Group (UK) Limited
 Client address: 3 More London Riverside London, SE1 2RE United Kingdom

Code	Sample name	Batch No./Date	Manufacturer	SGS job No.
#1	Anti-bacterial Hand Gel	LD20200313	/	GZCPCH200703979
#2	Anti-bacterial Hand Gel	LD20200313	/	GZCPCH200301008-2

Others: Net weight: 50mL/60mL/480mL/500mL

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS reference No.: #2: O-GZAFI.202000279101
 Date of receipt: #1:2020-07-21, #2: 2020-03-25
 Testing period: #1:2020-07-21~2020-08-06, #2: 2020-03-25~2020-04-30

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:

Please refer to next page(s).

TEST METHOD(S):

Please refer to next page(s).

TEST RESULT(S):

Please refer to next page(s).

CONCLUSION(S):

Please refer to next page(s).

The report was copied from the report GZCPCH200703979.1 and GZCPCH200301008.7.

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Signed for and on behalf of SGS



Authorized Signature
 Denny Li

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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RAND: 9480315



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Test Report

No: GZCPCH200703979.2

Date: 2020-08-07

CONCLUSION:

According to BS EN 1276-2009, the submitted sample tested under simulated clean conditions:

- a. For strain(s) of *Staphylococcus aureus*, the decimal log (lg) reduction in viability is > 5.13, comply with the requirement of BS EN 1276-2009 (The decimal log (lg) reduction in viable counts shall demonstrate at least 5);
- b. For strain(s) of *Escherichia coli*, the decimal log (lg) reduction in viability is > 5.08, comply with the requirement of BS EN 1276-2009 (The decimal log (lg) reduction in viable counts shall demonstrate at least 5);
- c. For strain(s) of *Pseudomonas aeruginosa*, the decimal log (lg) reduction in viability is > 5.17, comply with the requirement of BS EN 1276-2009 (The decimal log (lg) reduction in viable counts shall demonstrate at least 5);
- d. For strain(s) of *Enterococcus hirae*, the decimal log (lg) reduction in viability is > 5.15, comply with the requirement of BS EN 1276-2009 (The decimal log (lg) reduction in viable counts shall demonstrate at least 5).

TEST RESULT(S):

Evaluation of bactericidal activity

Test Method: BS EN 1276-2009 Chemical disinfectants and antiseptics-Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas-Test method and requirements (phase 2, step 1)

Result:

#2

a. Test organism: *Staphylococcus aureus* ATCC 6538

Validation and controls

Validation Suspension (Nv ₀)		Experimental conditions control (A)		Neutralizer or filtration control (B)		Method validation (C)	
\bar{x}	83	\bar{x}	77	\bar{x}	72	\bar{x}	74
30 ≤ \bar{x} of Nv ₀ ≤ 160?		\bar{x} of A is ≥ 0.5x \bar{x} of Nv ₀ ?		\bar{x} of B is ≥ 0.5x \bar{x} of Nv ₀ ?		\bar{x} of C is ≥ 0.5x \bar{x} of Nv ₀ ?	
<input checked="" type="checkbox"/> yes <input type="checkbox"/> no		<input checked="" type="checkbox"/> yes <input type="checkbox"/> no		<input checked="" type="checkbox"/> yes <input type="checkbox"/> no		<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	

Test suspension and Test

Test-suspension (N and N ₀):	lgN	lgN ₀
	8.28	7.28
	7.17 ≤ lg N ₀ ≤ 7.70? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	

Contact time (min)	lg Na	lg R
5 min	< 2.15	> 5.13

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RAND: 9480315



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b. Test organism: *Escherichia coli* ATCC 10536

Validation and controls

Validation Suspension (N _{v0})		Experimental conditions control (A)		Neutralizer or filtration control (B)		Method validation (C)	
\bar{X}	66	\bar{X}	52	\bar{X}	54	\bar{X}	51
30 ≤ \bar{X} of N _{v0} ≤ 160? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		\bar{X} of A is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		\bar{X} of B is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		\bar{X} of C is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Test suspension and Test

Test-suspension (N and N ₀):	IgN	IgN ₀
	8.23	7.23
	7.17 ≤ Ig N ₀ ≤ 7.70? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Contact time (min)	Ig Na	Ig R
5 min	< 2.15	> 5.08

 c. Test organism: *Pseudomonas aeruginosa* ATCC 15442

Validation and controls

Validation Suspension (N _{v0})		Experimental conditions control (A)		Neutralizer or filtration control (B)		Method validation (C)	
\bar{X}	94	\bar{X}	82	\bar{X}	83	\bar{X}	82
30 ≤ \bar{X} of N _{v0} ≤ 160? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		\bar{X} of A is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		\bar{X} of B is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		\bar{X} of C is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Test suspension and Test

Test-suspension (N and N ₀):	IgN	IgN ₀
	8.32	7.32
	7.17 ≤ Ig N ₀ ≤ 7.70? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Contact time (min)	Ig Na	Ig R
5 min	< 2.15	> 5.17



Remark:

1. Experimental conditions
 Product test concentrations: 80%
 Contact time: 5 min
 Test temperature: 20°C
 Interfering substance: 0.3g/L of bovine albumin
 Incubation temperature: 36°C
 Stability and appearance of the mixture during the procedure: test mixture were homogeneous
 Membrane filtration method, rising liquid: Sterile water

2. Explanation:

N: Number of survivors per ml in the test bacterial suspensions
 N₀: Number of survivors per ml in the test mixtures at the beginning of the contact time (time =0)
 Na: Number of survivors per ml in the test mixtures at the end of the contact time
 R = reduction (lg R= lg N₀ - lg Na)

#1

d: Test organism: *Enterococcus hirae* ATCC 10541

Validation and controls

Validation Suspension (N _{v0})		Experimental conditions control (A)		Neutralizer or filtration control (B)		Method validation (C)	
\bar{X}	130	\bar{X}	103	\bar{X}	100	\bar{X}	101
30 ≤ \bar{X} of N _{v0} ≤ 160? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> no		\bar{X} of A is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> no		\bar{X} of B is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> no		\bar{X} of C is ≥ 0.5x \bar{X} of N _{v0} ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	

Test suspension and Test

Test-suspension (N and N ₀):	lgN	lgN ₀
	8.30	7.30
	7.17 ≤ lg N ₀ ≤ 7.70? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	

Contact time	Lg Na	Lg R
5 min	<2.15	>5.15

Remark:

1. Experimental conditions
 Product test concentrations: 80%
 Contact time: 5 min
 Test temperature: 20°C
 Interfering substance: 0.3g/L of bovine albumin
 Incubation temperature: 36°C



Test Report

No: GZCPC200703979.2

Date: 2020-08-07

Stability and appearance of the mixture during the procedure: test mixture were homogeneous
 Membrane filtration method, rinsing liquid: PBS

2.Explanation:

N: Number of survivors per ml in the test bacterial suspensions

No: Number of survivors per ml in the test mixtures at the beginning of the contact time (time =0)

Na: Number of survivors per ml in the test mixtures at the end of the contact time

R = reduction (lg R= lg No – lg Na)

SAMPLE DESCRIPTION: #1~#2: Sample in bottle

Photo Appendix



*** End of Report***





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3-Ethanol (Alcohol) Content Test

Test Report

No: GZCPCH200301008.4

Date: 2020-03-31

Client name: Peppy Group (UK) Limited
 Client address: 3 More London Riverside London, SE1 2RE United Kingdom
 Sample name: Anti-bacterial Hand Gel
 Batch No./Date: LD20200313
 Manufacturer: /
 Others: Net weight: 50mL/60mL/480mL/500mL

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS job No.: GZCPCH200301008-1
 SGS reference No.: CANCPCH2003308001
 Date of receipt: 2020-03-18
 Testing period: 2020-03-18~2020-03-31

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
 Please refer to next page(s).

TEST METHOD(S):

Please refer to next page(s).

TEST RESULT(S):

Please refer to next page(s).

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Authorized Signature
 Denny Li

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Page 1 of 2

RAND: 2340615



Test Report

No: GZCPC200301008.4

Date: 2020-03-31

TEST METHOD(S):

SGS In house method, analysis was performed by GC-MS

TEST RESULT(S):

Test item(s)	Unit	Test method(s) (Reference to)	Test result(s)	MDL
Ethanol	%(v/v)	SGS In house method, analysis was performed by GC-MS	77.726	0.010

Remark:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) The result of ethanol shown are only for reference .

SAMPLE DESCRIPTION: Sample in bottle

Photo Appendix



*** End of Report***

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peppy*pure*

4-Methanol Content Test

Test Report

No: GZCPCH200301008.6

Date: 2020-04-08

Client name: Peppy Group (UK) Limited
Client address: 3 More London Riverside London, SE1 2RE United Kingdom

Sample name: Anti-bacterial Hand Gel
Batch No./Date: LD20200313
Manufacturer: /
Others: Net weight: 50mL/60mL/480mL/500mL

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS job No.: GZCPCH200301008-1
SGS reference No.: CANCEPCH2004123001
Date of receipt: 2020-03-18
Testing period: 2020-03-31~2020-04-08

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
 Please refer to next page(s).

TEST METHOD(S):

Please refer to next page(s).

TEST RESULT(S):

Please refer to next page(s).

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Test Report

No: GZCPC200301008.6

Date: 2020-04-08

TEST METHOD(S):

With reference to Safety and Technical Standards for Cosmetics 2015

TEST RESULT(S):

Test item(s)	Unit	Test method(s) (Reference to)	Test result(s)	MDL
Methanol	mg/kg	Safety and Technical Standards for Cosmetics 2015 Part 4 section 2 article 2.22 Method II, analysis was performed by HS-GC-FID	ND	50

Remark:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)

SAMPLE DESCRIPTION: Sample in bottle

Photo Appendix



*** End of Report***



peppy*pure*

5-Benzene Content Test

Test Report**No:** GZCPCH200401951-1**Date:** 2020-05-09

Client name: Peppy Group (UK) Limited
Client address: 3 More London Riverside London, SE1 2RE United Kingdom

Sample name: Anti-bacterial Hand Gel
Batch No./Date: 1# BSK
20200416

Manufacturer: /
Others: Net weight: 50mL/60mL/480mL/600mL

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS job No.: GZCPCH200401951-1
SGS reference No.: CANCPCH2006085401
Date of receipt: 2020-04-27
Testing period: 2020-04-27~2020-05-09

TEST(S) REQUESTED:
Selected test(s) as requested by applicant:
Please refer to next page(s).

TEST METHOD(S):
Please refer to next page(s).

TEST RESULT(S):
Please refer to next page(s).

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Signed for and on behalf of SGS



Authorized Signature
Denny Li

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Test Report

No: GZCPC200401951-1

Date: 2020-05-09

SGS In-house method, analysis was performed by HS-GC-MS

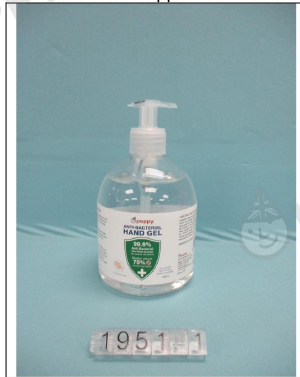
Test item(s)	Unit	Test method(s) (Reference to)	Test result(s)	MDL
Benzene	µg/g	SGS In-house method, analysis was performed by HS-GC-MS	ND	5

Remark:

- (1) 1 mg/kg = 1µg/g = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)

SAMPLE DESCRIPTION: Sample in bottle

Photo Appendix



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peppy*pure*

6-Heavy Metals Test

Test Report

No: GZCPCH200301008.1

Date: 2020-03-27

Client name: Peppy Group (UK) Limited
 Client address: 3 More London Riverside London, SE1 2RE United Kingdom
 Sample name: Anti-bacterial Hand Gel
 Batch No./Date: LD20200313
 Manufacturer: /
 Others: Net weight: 50mL/60mL/480mL/500mL

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS job No.: GZCPCH200301008-1
 SGS reference No.: CANCPCH2003303501
 Date of receipt: 2020-03-18
 Testing period: 2020-03-18~2020-03-27

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
 Please refer to next page(s).

TEST METHOD(S):

Please refer to next page(s).

TEST RESULT(S):

Please refer to next page(s).

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Authorized Signature
 Denny Li

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Test Report

No: GZCPC200301008.1

Date: 2020-03-27

TEST METHOD(S):

SGS in house method, analysis was performed by ICP-MS
 SGS in house method, analysis was performed by ICP-OES

TEST RESULT(S):

(1) To determine Lead, Mercury, Arsenic, Antimony, Cadmium contents in the submitted sample in accordance with the German Health Authority BgA (Recommendation from German Health Journal No.28, July 1985).

Test item(s)	Unit	Test method(s) (Reference to)	Limit(s)*	Test result(s)	MDL
Total Arsenic(As)	mg/kg	SGS in house method, analysis was performed by ICP-MS	< 5	ND	0.2
Total Cadmium(Cd)	mg/kg		< 5	ND	0.2
Total Antimony(Sb)	mg/kg		< 10	ND	0.2
Total Mercury(Hg)	mg/kg		< 1	ND	0.2
Total Lead(Pb)	mg/kg		< 20	ND	0.2

(2) To determine Nickel (Soluble) content in the submitted sample in accordance with the German Health Journal No. 7/1992, Session 45 from November 14, 1991.

Test item(s)	Unit	Test method(s) (Reference to)	Limit(s)#	Test result(s)	MDL
Soluble Nickel (Ni)	mg/kg	SGS in house method, analysis was performed by ICP-OES	< 10	ND	3

Remark:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) * = As client's request, the limit is quoted from German Health Authority BgA (Recommendation from German Health Journal No.28, July 1985).
- (5) # = As client's request, the limit is quoted from German Health Journal No. 7/1992, Session 45 from November 14, 1991.

Test Report

No: GZCPC200301008.1

Date: 2020-03-27

SAMPLE DESCRIPTION: Sample in bottle

Photo Appendix



*** End of Report***

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peppy*pure*

7-PH Value Test

Test Report

No: GZCPCH200301008.3

Date: 2020-03-31

Client name: Peppy Group (UK) Limited
 Client address: 3 More London Riverside London, SE1 2RE United Kingdom

Sample name: Anti-bacterial Hand Gel
 Batch No./Date: LD20200313
 Manufacturer: /
 Others: Net weight: 50mL/60mL/480mL/500mL

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS job No.: GZCPCH200301008-1
 SGS reference No.: CANCPCH2003308001
 Date of receipt: 2020-03-18
 Testing period: 2020-03-18~2020-03-31

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
 Please refer to next page(s).

TEST METHOD(S):

Please refer to next page(s).

TEST RESULT(S):

Please refer to next page(s).

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Test Report

No: GZCPC200301008.3

Date: 2020-03-31

TEST METHOD(S):

Client's method

TEST RESULT(S):

Test item(s)	Unit	Test method(s) (Reference to)	Test result(s)
pH	/	Client's method, analysis was performed by pH meter: Room temperature, Direct test method	8.1

SAMPLE DESCRIPTION: Sample in bottle

Photo Appendix



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peppy*pure*

8- Microbe Test

Test Report
No: GZCPC200301008.2

Date: 2020-03-27

Client name: Peppy Group (UK) Limited
Client address: 3 More London Riverside London, SE1 2RE United Kingdom
Sample name: Anti-bacterial Hand Gel
Batch No./Date: LD20200313
Manufacturer: /

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS job No.: GZCPC200301008-1
Date of receipt: 2020-03-18
Testing period: 2020-03-18~2020-03-27

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
 Please refer to next page(s).

TEST METHOD(S):

Please refer to next page(s).

TEST RESULT(S):

Please refer to next page(s).

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Test Report

No: GZCPC200301008.2

Date: 2020-03-27

TEST METHOD(S):

With reference to European Pharmacopoeia 9.0 2.6.12

With reference to European Pharmacopoeia 9.0 2.6.13

TEST RESULT(S):

To determine microorganisms in the submitted sample refer to the European Pharmacopoeia 9.0 2.6.12 & 2.6.13

Test item(s)	Unit	Test method(s) (Reference to)	SCCS Requirement*	Test result(s)
Total Aerobic Microbial count	cfu/g	European Pharmacopoeia 9.0 2.6.12	$\leq 1 \times 10^3$	< 10
Total combined yeasts/moulds count	cfu/g			< 10
Escherichia coli	/g	European Pharmacopoeia 9.0 2.6.13	Absence	Not detected
Salmonella	/10g		/	Not detected
Staphylococcus aureus	/g		Absence	Not detected
Clostridia	/g		/	Not detected
Bile-tolerant Gram-negative bacteria	/g		/	Not detected
Pseudomonas aeruginosa	/g		Absence	Not detected
Candida albicans	/g		Absence	Not detected

Remark: cfu = Colony forming unit

< = Less than

* Total Aerobic Mesophilic Microorganisms (Bacteria plus yeast and mould)

- Category 1: Products Specifically intended for children under three years of age, the eye area or the mucous membranes: $\leq 1 \times 10^2$ cfu/g or ml
- Category 2: Other products: $\leq 1 \times 10^3$ cfu/g or ml



Test Report

No: GZCPCH200301008.2

Date: 2020-03-27

SAMPLE DESCRIPTION: Sample in bottle

Photo Appendix



*** End of Report***



peppy*pure*

9-Toxicological Risk Assessment

TOXICOLOGY RISK ASSESSMENT FOR **ANTI-BACTERIAL HAND GEL**

Customer Reference: N/A

CONFIDENTIAL

DELIVERED TO:

PEPPY GROUP (UK) LIMITED
3 More London Riverside London, SE1 2RE
United Kingdom

GB

PREPARED BY:

Intertek-Shanghai
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CN

DATE:

March 23, 2020
Report ID: SH-PG-TRAG-1
Intertek ID: P2020031703





Toxicology Risk Assessment

Anti-Bacterial Hand Gel

Customer Reference: N/A

Product Information

An anti-bacterial hand gel containing 75% ethanol, and have 4 specifications of 50ml/ 60ml/ 480ml/ 500ml.

Formulation

See Appendix One for product formulation data

Assessment Conclusion

This chemical formulation is not classified as a Hazardous Mixture as per the health criteria of European Regulation (EC) No. 1272/2008 on the basis of available information for the ingredients from supplier safety data sheets and current literature. Upon assessment of the supplied formulation, there are no risks of adverse effects on human health.

It must be ensured that the ingredients to be used in the formulation will be of appropriate quality for use in this product.

Provided the requirements and any further testing listed in this report are satisfied and taking in to account typical ways children interact with this product, it is considered that, from a toxicological point of view, the proposed formulation is unlikely to cause harm for the majority of users.

This statement only applies to the product with the formula identified above. Any change in the formula, including any quality aspect, requires a new, up-dated safety assessment for the formula affected.

Under normal or reasonably foreseeable conditions of use, a product made to this formulation is unlikely to produce an abnormally high number of adverse reactions. This product was with the function of biocide and is subject to EU biocide regulation.

Labelling Warnings and instructions for use

Warnings

No mandatory regulatory warnings

Instructions of Use

Follow instructions on the label

Fragrance Allergen Labelling

No allergens must be listed on the product label



Reasoning

Product Toxicity Review

Substances are present in this formulation which are classified as Hazardous to Health in accordance with CLP Regulation (EC) No. 1272/2008 and the formulation is classified as Hazardous.

Effects of the product as provided on the skin

The formulation as supplied may cause slight skin irritation especially if exposure is prolonged and/or repeated. However, under normal conditions of use, the likelihood of causing skin irritancy will be very low.

Repeated exposure to the formulation as supplied is unlikely to produce allergy by skin contact.

Exposure to this product is unlikely to result in phototoxic effects.

Effects of the product as provided on the eye

Accidental exposure of the eye to the neat product may result in minimal eye irritation.

Effects following ingestion of the product as provided

The formulation as supplied if swallowed is likely to cause irritation to the mouth and upper digestive tract.

Effects following inhaling of the product as provided

Inhalation is an unlikely route of exposure.

Ingredient Toxicity Review

Ethanol is classified as Flam. Liq. 2 under EU CLP ((EC) No 1272/2008). Manufacturer should ensure the grade of carbomer being used be benzene-free to minimize the risk of carcinogenic potential.

Margin of Safety Review

No Information available

See Appendix One for a toxicological review of the formulation ingredients



Exposure Scenario

Product Class: Skin products

Product Subclasses: Other skin products, Other skin products, Hand Sanitizer

Product Group: Cosmetic

Part of body exposed to undiluted: Apply on Hands

Product Name: Anti-Bacterial HAND GEL

Targeted Population: PreAdolescent 3-5Years

Amount per application: 4 ml

Number of applications per day: Several times per day

Physical Form: Liquid

Total Amount applied per day: 480 ml

Skin Surface Area of Application (cm²): 390

Amount per Unit Area of Skin per day (mg/cm²/day): 0.2

Exposure Time Neat: 1 Minute

Retention Factor: 1

Exposure Time Dilute: Don't dilute

Exposure Time Aerosol Inhalation: Not Applicable

Exposure Time Solvent Inhalation: Not Applicable

Fragrance Composition

This formulation does not contain a synthetic fragrance and therefore a fragrance safety evaluation as per IFRA code of practice is not applicable to this product.



Assessor's Credentials and Approval

This product was evaluated by S. WANG who is qualified by education, training and experience to evaluate the safety of this product formulation.

Sophia Wang

S. WANG, MSc (Toxicology)

Intertek Health, Environmental & Regulatory Services (HERS)

Date: March 23, 2020

This product was reviewed by R. ZHANG who is qualified by education, training and experience to perform this job.

Rainbow Zhang

R. ZHANG, Ph.D, Toxicologist

Intertek Health, Environmental & Regulatory Services (HERS)

Date: March 23, 2020



Appendix One: Product Formulation Data

Formulation

The chemical names shown below refer to the raw materials used to formulate this product. The identity of the raw materials may be based on alternative nomenclature such as IUPAC name, Chemical name, INCI name or generic trade name. Furthermore, there may be instances where several CAS number exist for the same chemical ingredient. Where this has occurred, the most appropriate substitute will have been used where one has not been provided.

INCI Name	% Concentration	% Active	Activity in Product	CAS No	Chemical Name
ALCOHOL	75	100	75	64-17-5	ETHANOL
CARBOMER	0.5	100	0.5	9007-16-3	CARBOMER (GRADE NOT SPECIFIED)
AQUA	24.5	100	24.5	7732-18-5	AQUA (WATER)

END OF REPORT

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peppy*pure*

10-Safety Data Sheet

SDS Report

No.: CANCPCH2003279201

Date: 25 Mar 2020

Page 1 of 1

PEPPY GROUP (UK) LIMITED

3 MORE LONDON RIVERSIDE LONDON, SE1 2RE UNITED KINGDOM

SGS Job No. : GZCPCH200301008
 Sample Name : Anti-Bacterial Hand Gel
 End Uses : Hand washing and disinfecting
 Composition/Ingredient of sample (as per client submission) : See section 3 Composition/information on ingredients on the SDS report
 Job Receiving Date : 19 Mar 2020
 SDS Preparation Period : 19 Mar 2020-25 Mar 2020

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2015/830, and is provided per attached.

Remark:

The SDS is prepared based on the information provided by client.

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Zm guan
 Approved Signatory



SGS-CSTC Inspection & Testing Services Co., Ltd.
 Guangzhou Branch Heavy Metal Chemical Laboratory

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Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 25.03.2020

Version number 1

Revision: 23.03.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Anti-Bacterial Hand Gel
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Hand washing and disinfecting
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** PEPPY GROUP (UK) LIMITED
- **Full address:** 3 MORE LONDON RIVERSIDE LONDON, SE1 2RE UNITED KINGDOM
- **Phone number:** +44(0)2079938986
- **Email:** info@peppygroup.com
- **Only Representative / other EU contact point:** Not available
- **Further information obtainable from:** PEPPY GROUP (UK) LIMITED
- **1.4 Emergency telephone number:**
GERMANY
Poison Center Berlin - Institute of Toxicology
Tel: +49 030 192 40
- **1.5 Reference Number:** CANCPCH2003279201, GZCPCH200301008

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No.1272/2008.
- **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02

- **Signal word** *Danger*
- **Hazard statements**
H225 Highly flammable liquid and vapour.
- **Precautionary statements**
- **P101** *If medical advice is needed, have product container or label at hand.*
- **P102** *Keep out of reach of children.*
- **P103** *Read label before use.*
- **P210** *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
- **P240** *Ground and bond container and receiving equipment.*
- **P241** *Use explosion-proof [electrical/ventilating/lighting] equipment.*

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Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 25.03.2020

Version number 1

Revision: 23.03.2020

Trade name: Anti-Bacterial Hand Gel

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- P280** Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards:**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Mixture of the substances listed below with nonhazardous additions.
 For the wording of the listed hazard statements refer to section 16.

· Composition:

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol ⚠ Flam. Liq. 2, H225	75%
CAS: 7732-18-5 EINECS: 231-791-2	Water	24.5%
CAS: 9007-16-3	Acrylic acid, polymer with sucrose polyallyl ether ⚠ Eye Irrit. 2, H319	0.5%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General description:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

- CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet

· 5.2 Special hazards arising from the substance or mixture: No further relevant information available.

· 5.3 Advice for firefighters

- **Protective equipment:** No special measures required.

EU
(Contd. on page 3)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 25.03.2020

Version number 1

Revision: 23.03.2020

Trade name: Anti-Bacterial Hand Gel

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:** For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

64-17-5 ethanol (75%)

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
AGW (Germany)	Long-term value: 380 mg/m ³ , 200 ppm 4(II);DFG, Y
VME (France)	Short-term value: 9500 mg/m ³ , 5000 ppm Long-term value: 1900 mg/m ³ , 1000 ppm

- **Regulatory information**
WEL (Great Britain): EH40/2018
AGW (Germany): TRGS 900
VME (France): ED 984, 10.2016
- **DNELs:** Not available
- **PNECs:** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.
- **Appropriate engineering controls:**
Immediately remove all soiled and contaminated clothing

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Safety data sheet
Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 25.03.2020

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Revision: 23.03.2020

Trade name: Anti-Bacterial Hand Gel

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Wash hands before breaks and at the end of work.
 See Section 7 for information about design of technical facilities.

- **Personal protective equipment**
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance**

Form:	Gel
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not available

- **pH-value:** 5,5-8,5

- **Change in condition**

Melting point/Freezing point:	Not available
Initial boiling point and boiling range:	Not available

- **Flash point:** Not available

- **Flammability (solid, gas):** Not available

- **Auto-ignition temperature:** Not available

- **Decomposition temperature:** Not available

- **Self-igniting:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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Trade name: Anti-Bacterial Hand Gel

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- | | |
|--------------------------------|---------------|
| · Explosion limits | |
| Lower: | Not available |
| Upper: | Not available |
| · Oxidising properties: | Not available |

- | | |
|---------------------------|---------------|
| · Vapour pressure: | Not available |
|---------------------------|---------------|

- | | |
|----------------------------|---------------|
| · Density: | Not available |
| · Relative density: | Not available |
| · Vapour density: | Not available |
| · Evaporation rate: | Not available |

- | | |
|--|---------------|
| · Solubility in / Miscibility with water: | Not available |
|--|---------------|

- | | |
|--|---------------|
| · Partition coefficient: n-octanol/water: | Not available |
|--|---------------|

- | | |
|--------------------|---------------|
| · Viscosity | |
| Dynamic: | Not available |
| Kinematic: | Not available |

- | | |
|--------------------------------|--|
| · 9.2 Other information | No further relevant information available. |
|--------------------------------|--|

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** Data not available
- **10.2 Chemical stability:** Data not available
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

64-17-5 ethanol

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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Printing date 25.03.2020

Version number 1

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Trade name: Anti-Bacterial Hand Gel

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SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------------------|
| · 14.1 UN-Number | UN1170 |
| · ADR/RID/ADN, IMDG, IATA | |
| · 14.2 UN proper shipping name | ETHANOL SOLUTION |
| · ADR/RID/ADN, IMDG, IATA | |
| · 14.3 Transport hazard class(es) | |
| · ADR/RID/ADN, IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| · 14.4 Packing group | II |
| · ADR/RID/ADN, IMDG, IATA | |
| · 14.5 Environmental hazards | Not applicable |
| · 14.6 Special precautions for user: | Warning: Flammable liquids. |
| · Danger code (Kemler): | 33 |
| · EMS Number: | F-E,S-D |
| · Stowage Category | A |

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- | | |
|---|---|
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable |
| 14.8 Transport/Additional information: | |
| <ul style="list-style-type: none"> • ADR/RID/ADN • Limited quantities (LQ): • Excepted quantities (EQ) | 1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml |
| <ul style="list-style-type: none"> • Transport category: • Tunnel restriction code: | 2
D/E |
| <ul style="list-style-type: none"> • IMDG • Limited quantities (LQ) • Excepted quantities (EQ) | 1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml |
| • UN "Model Regulation": | UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

64-17-5 ethanol

5

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation (16/1/2020)

None of the ingredients is listed

- REACH Regulation Annex XVII Restriction (20/06/2019)

See Section 16 for information about restriction of use.

- None of the ingredients is listed

- REACH Regulation Annex XIV Authorisation List (13/6/2017)

None of the ingredients is listed

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Relevant hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

- Classification according to Regulation (EC) No. 1272/2008

Flammable liquids | Bridging principles

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Safety data sheet
Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 25.03.2020

Version number 1

Revision: 23.03.2020

Trade name: Anti-Bacterial Hand Gel

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 The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELJNCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

 End of document

EU