

atory Services (Pty) Ltd 201476/07 VAT No. 478013505 25 ad			Ref. No : 1107730 Issued at : Johannes Date : 11/05/20) burg
1 7900		M&L LABS		20
2238 on@za.bureauveritas.com	Certif	ficate/Report	Page : 1 of 1	
uveritas.com	RESULTS REPORTE	D RELATED ONLY TO ITEMS TESTED		
COMPANY NAME	: MIDWAY CASH AN	ND CARRY PTY LTD		
ADDRESS	: 55 CHRIS HANI RO	AD, SOWETO 1818		
SUBJECT	: QUANTITATIVE SU	JSPENSION TEST FOR THE EV	ALUATION	
	OF BACTERICIDAL	ACTIVITY OF CHEMICAL DIS	INFECTANTS	
	SANS 5261:2009 (SA	ANS 490:2013)		
MARKED	: MIDWAY CASH AN	ND CARRY LIQUID HAND SAN	ITIZER	
ACTIVE INGREDIENT	Г: ALCOHOL			
INSTRUCTED BY	: KALLINA			
LAB NO.	: P230997			
RECEIVED ON	: 05/05/2020			
DATE ANALYSED	: 05/05/2020			
P actuation ATCC 15442	suspension	after 48 hours		
<i>aeruginosa</i> ATCC 15442 <i>aureus</i> ATCC 6538	2.4x10 ⁷	NEGATIVE NEGATIVE	PASS PASS	
E. coli ATCC 8739	1.7x10 ⁷	NEGATIVE	PASS	1
Cest method and validation Dilution: Neat	: SANS 5261:2009 (SA	NS 490:2013)		
Contact Time : 60 seconds				
ncubation Temperature: 3	7°C			
est remperature 20 c				
re was no visible growth af	ter the initial incubation	period of 48 hours. Visible grow	th was observed after re-ino	cula
ving that the test sample kille	d the bacteria in the orig	inal test organism suspension.		1
				1
iclusion:				
product complied with the r	pass requirements of SAN	NC 400.2013 as stimulated in SANS	5261-2000	
product compared	ass requirements et	NS 490.2015 as supulated in 5	5201.2005.	
	1/			
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Active independent of the second seco	Ť			1

Bacterial Culture	Initial test suspension	Turbidity of sample after 48 hours	Pass/Fail
P. aeruginosa ATCC 15442	2.4x10 ⁷	NEGATIVE	PASS
S. aureus ATCC 6538	1.9x10 ⁷	NEGATIVE	PASS
E. coli ATCC 8739	1.7x10 ⁷	NEGATIVE	PASS
Test method and validation : S	ANS 5261:2009 (SA	NS 490:2013)	
Dilution: Neat			
Contact Time : 60 seconds			
Incubation Temperature: 37°C	2		
Test Temperature : 20°C			



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RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

COMPANY NAME	: MIDWAY CASH AND CARRY PTY LTD
ADDRESS	: 55 CHRIS HANI ROAD, SOWETO, 1818
SUBJECT	: QUANTITATIVE SUSPENSION TEST FOR THE EVALUATION OF
	BACTERICIDAL ACTIVITY OF CHEMICAL DISINFECTANTS
	AND ANTISEPTICS SANS 51276 (EN1276): DILUTION-NEUTRALIZATION
MARKED	: LIQUID HAND SANITISER
ACTIVE INGREDIEN	NT : ALCOHOL BASED
INSTRUCTED BY	: KALLINA
LAB NO.	: P230950
RECEIVED ON	: 24/04/2020
DATE ANALYSED	: 28/04/2020

Results:

Table 1

Bacterial Culture	Initial test suspension	Log Reduction
E. coli ATCC 10536	3.8x10 ⁷	>5.43
P. aeruginosa ATCC 15442	3.2x10 ⁷	>5.36
S. aureus ATCC 6538	4.4x10 ⁷	>5.49
E. hirae ATCC 10541	2.1x10 ⁷	>5.17
Test method and validation : SAM	IS 51276:2011 (EN 1276)	
Dilution: Neat		
Contact Time : 1 minute		
Interfering solution : 0.3g/l Bovin	e serum albumin	
Test Temperature : 20°C		
Incubation temperature : 37°C		
Neutralizing solution : Neutralizin	g fluid	

Conclusion:

• The product **complied** with the criteria indicated under the "Pass Requirements" of SANS 51276 (EN1276) standard (obligatory conditions) which requires at least a 99.999% kill (5 log reduction).





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RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

TEST VALIDITY

For each test organism:

- N is between 1.5×10^8 and 5.0×10^8 ($8.17 \le \log N \le 8.70$)
- N_0 is between 1.5×10^7 and 5.0×10^7 ($7.17 \le \log N \le 7.70$)
- N_{vo} is between 30 and 160 (3.0x10¹ and 1.6x10²)
- A, B, C are equal to or greater than 0.5xNvo
- Control of weighted mean counts: quotient is not lower than 5 and not higher than 15

VALIDATIONS AND CONTROLS

Table 2

Enterococcus hirae ATCC 10541

Validation suspension		Experimental Conditions Control A			Neutralizer Control B			Method Validation (Neat product concentration			
		Ave			Ave			Ave			Ave
Vc1	62	50.5	Vc1	72	74	Vc1	60	- 57.5	Vc1	50	- 55
Vc2	57	- 59.5	Vc2	76	- 74	Vc2	55		Vc2	60	
0.5x 59	.5 (Nvo)	= 29.8									
Is the N	vo value	between	30-160:	YES							
Is the Ex	perimen	ntal Condi	ition A≥C).5xNvo	value: YE	S		_			
Is the N	eutralize	er Conditio	on B≥0.5	xNvo va	lue: YES						
Is the M	ethod V	alidation	C≥0.5xN	vo value	: YES						

Table 3

Escherichia coli ATCC 10536

Validation suspension		Experimental Conditions Control A			Neutralizer Control B			Method Validatio (Neat product concentration			
		Ave			Ave			Ave			Ave
Vc1	58	- 55	Vc1	49	50	Vc1	63	- 66	Vc1	59	- 51.5
Vc2	52	55	Vc2	51	- 50	Vc2	69	00	Vc2	44	
0.5x 55	5 (Nvo)=	= 27.5						<u>`</u>			
Is the N	lvo value	between	30-160:	YES							
Is the E	xperimen	ital Cond	ition A≥C).5xNvo	value: YE	S					
Is the N	leutralize	er Conditi	on B≥0.5	xNvo va	lue: YES						
Is the M	Aethod V	alidation	C≥0.5xN	vo value	: YES						





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RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

Table 4

Pseudomonas aeruginosa ATCC 15442

Validation suspension		Experimental Conditions Control A			Neutralizer Control B			Method Validation ((Neat product concentration			
		Ave			Ave			Ave			Ave
Vc1	39	37	Vc1	58	10	Vc1	53	40	Vc1	50	45.5
Vc2	35	51	Vc2	40	49	Vc2	43	- 48	Vc2	41	45.5
0.5x 37	(Nvo)=	18.5									1
Is the N	vo value	between	30-160:	YES							
Is the Ex	perimen	ital Condi	tion A≥0	.5xNvo	value: YES	S					
Is the N	eutralize	r Conditio	on B≥0.5	xNvo val	ue: YES						
Is the M	ethod Va	alidation (C≥0.5xN	vo value:	YES						

Table 5

Staphylococcus aureus ATCC 6538

Validation suspension		Experimental Conditions Control A			Neutralizer Control B			Method Validation (Neat product concentration			
		Ave			Ave			Ave			Ave
Vc1	68	C.4	Vc1	76	71	Vc1	54	FOF	Vc1	70	70.5
Vc2	60	64	Vc2	66	71	Vc2	59	56.5	Vc2	75	72.5
0.5x 64	(Nvo)=	32									
Is the N	vo value	between	30-160:	YES							
Is the Ex	perimer	ntal Condi	ition A≥0	.5xNvo	value: YE	S					
Is the N	eutralize	r Conditi	on B≥0.5	xNvo va	lue: YES						
Is the M	lethod Va	alidation	C≥0.5xN	vo value	: YES						

TECHNICAL SIGNATORY

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Certificate/Report

RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

COMPANY NAME	: MIDWAY CASH AND CARRY PTY LTD
ADDRESS	: 55 CHRIS HANI ROAD, SOWETO, 1818
SUBJECT	: QUANTITATIVE SUSPENSION TEST FOR THE EVALUATION OF
	BACTERICIDAL ACTIVITY OF CHEMICAL DISINFECTANTS
	AND ANTISEPTICS SANS 53727 (EN13727): DILUTION-NEUTRALIZATION
	METHOD
MARKED	: DERMA DROP LIQUID HAND SANITISER
APPEARANCE	: CLEAR LIQUID
ACTIVE INGREDIENT	: ALCOHOL BASED
NEUTRALIZING AGEN	T: NEUTRALIZING FLUID
STORAGE CONDITION	S: KEEP AWAY FROM DIRECT SUNLIGHT
INSTRUCTED BY	: KALLINA
LAB NO.	: P231133
RECEIVED ON	: 20/05/2020
DATE ANALYSED	: 22/05/2020

EXPERIMENTAL CONDITIONS:

Obligatory conditions	
test organisms:	Enterococcus hirae ATCC 10541
	Pseudomonas aeruginosa ATCC 15442
	Staphylococcus aureus ATCC 6538
Test temperature:	20°C
Contact time:	1 minute
Interfering substance:	0.3g/l Bovine serum albumin (clean conditions)
Test incubation temperature:	37°C

PASS REQUIREMENTS:

The product shall demonstrate at least a 5 decimal log reduction when diluted with hard water/or undiluted and tested under obligatory test conditions. At least one of the test concentrations will demonstrate a log reduction of less than 5 log.

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RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

TEST VALIDITY

For each test organism:

- *N* is between 1.5×10^8 and 5.0×10^8 (8.17 $\le \log N \le 8.70$)
- N_0 is between 1.5x10⁷ and 5.0x10⁷ (7.17 \le log N \le 7.70)
- N_{vo} is between 30 and 160 (3.0x10¹ and 1.6x10²)
- A, B, C are equal to or greater than 0.5xNvo
- Control of weighted mean counts: quotient is not lower than 5 and not higher than 15

RESULTS:

Pseudomonas aeruginosa ATCC 15442

Table 1: N and No values

Dilution	Vc1	Vc2	Average N(wm)	Log N	N ₀ (N/10)	Log No	
10-6	344	336	3.6x10 ⁸ 8.56		0.0.107	7.70	
10-7	42	35	- 5.6X10°	8.56	3.6x10 ⁷	7.56	
Is Log Nbetwe	en 8.17 and 8	3.70: Yes	· · · · · · · · · · · · · · · · · · ·				
Is Log No betwe	een 7.17and 7	7.70: Yes					
Control of weight	ghted mean co	ounts:8.83					

Table 2: Test Log Reduction Values

Product Concentration	Vc1	Vc2	Na (Ave Vc1&Vc2x10)	Log Na	Log Reduction (No:7.56)	
1%	>330	>330	>3300	>3.52	<4.04	
Neat	<14	<14	<140	<2.15	>5.41	

Staphylococcus aureus ATCC 6538

Table 3: Nand No values

Dilution	Vc1	Vc2	Average N(wm)	Log N	No (N/10)	Log No	
10-6	322	311	2 5-108	0 5 4	0 5 107		
10-7	36	42	-3.5×10^{8}	8.54	3.5x10 ⁷	7.54	
Is Log Nbetwe	en 8.17 and 8	3.70: Yes	1 (2 (10)) 1				
Is Log No betwe	een 7.17and	7.70: Yes					
Control of wei	ghted mean c	ounts: 8.12					





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RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

Table 4: Test Log Reduction Values

Product Concentration	Vc1	Vc2	Na (Ave Vc1&Vc2x10)	Log Na	Log Reduction (No:7.54)	
1%	>330	>330	>3300	>3.52	<4.02	
Neat	<14	<14	<140	<2.15	>5.39	

Enterococcus hirae ATCC 10541

Table 5: Nand No values

Dilution	Vc1	Vc2	Average N(wm)	Log N	N ₀ (N/10)	Log No
10-6	318	326	- 3.6x10 ⁸ 8.56			
10-7	36	43	-3.6×10^{8}	8.56	3.6x10 ⁷	7.56
Is Log N betwe	en 8.17 and 8	3.70: Yes				
Is Log No betwe	een 7.17and 7	7.70: Yes				
Control of weig	ghted mean co	ounts: 8.15				

Table 6: Test Log Reduction Values

Product Concentration	Vc1	Vc2	Na (Ave Vc1&Vc2x10)	Log Na	Log Reduction (No:7.56)
1%	>330	>330	>3300	>3.52	<4.02
Neat	<14	<14	<140	<2.15	>5.41

VALIDATIONS AND CONTROLS

Table 7: Enterococcus hirae ATCC 10541

Valida	tion sus _j	pension		perimer tions Co		Neutra	alizer Co	ontrol B	ol B Method Valid col B (Neat pro concentra		duct	
	210-2	Ave			Ave			Ave			Ave	
Vc1	77	69.5	Vc1	46	E1 E	Vc1	49	50	Vc1	42	42	
Vc2	62	05.5	Vc2	57	- 51.5	Vc2	51	- 50	Vc2	42		
0.5x69.	.5 (Nvo)= 34.8										
Is the N	vo value	between	30-160:	YES								
Is the E	xperimen	ntal Condi	ition A≥C	.5xNvo	value: YE	S						
Is the N	eutralize	r Conditio	on B≥0.5	xNvo va	lue: YES							
Is the M	lethod V	alidation	~>0.5xN	vo value	· VES							



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Valida	tion susp	pension		perimen tions Co		Neutra	alizer Co	ontrol B	Method Validation (Neat product concentration		uct
		Ave			Ave			Ave			Ave
Vc1	71	68	Vc1	51	54	Vc1	43	- 57.5	Vc1	33	34.5
Vc2	65	00	Vc2	57	54	Vc2	52		Vc2	36	
0.5x68	(Nvo)=	34									1
Is the N	vo value	between	30-160:	YES							
Is the E	xperimer	ital Condi	tion A≥0	.5xNvo	value: YES	6					
Is the N	eutralize	r Conditio	on B≥0.5	xNvo val	ue: YES	-					
Is the N	lethod Va	alidation (2>0.5xN	vo value	YES						

Validation suspension		Experimental Conditions Control A			Neutr	alizer Co	ontrol B	Method Validation C (Neat product concentration			
		Ave			Ave			Ave		neonna	Ave
Vc1	71	<u> </u>	Vc1	51	- 4	Vc1	43		Vc1	33	
Vc2	65	- 68	Vc2	57	- 54	Vc2 52 57.	57.5	Vc2	36	- 34.5	
).5x68	(Nvo)=	34									-
s the N	vo value	between	30-160:	YES							
					value: YE	S					
		r Conditi		222.22.2	NUCLE CITY						
s the M	lethod Va	alidation	C≥0.5xN	vo value	: YES						
Valida	tion susp		Experiment Conditions Con		ntrol A	Neutralizer Control B		(Ne	d Valida eat produ icentrati	ıct on	
11.1	10	Ave			Ave			Ave			Ave
Vc1	46	47	Vc1	51	- 53.5	Vc1	34	36.5	Vc1	52	49
Vc2	48	22.5	Vc2	56		Vc2	39		Vc2	46	
- 1	(Nvo)=		00.100	1750							
		between		100 C P		0					
		r Conditio	and the first second second second		value: YE	5					
		alidation (200 and 100	1967 B. A. B.						
is the M	ethod va	mation	20.5XN	vo value	: YES						
	duct test				he criteria s) which						



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M and L Laboratory Services (Pty) Ltd

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Ref. No. : ML-2020-26193 Issued at. : Johannesburg Date : 2020/06/19 Contract No. : 11104609 Page 1 of 1

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RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

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COMPANY NAME	MIDWAY CASH & CARRY (PTY) LTD
ADDRESS	55 CHRIS HANI RD, PROTEA SOUTH, JHB
	HAND SANITIZER
PRODUCT	÷ 1
NO. SAMPLES SUBMITTED	: N/A
BARCODE	:
DATE OF MANUFACTURE	: N/A
EXPIRY DATE	: N/A
BATCH NUMBER	: N/A
INSTRUCTED BY	NAINESH
ORDER NO.	: COD
RECEIVED ON	11/06/2020
LAB NO(S)	: P121411
DATE ANALYSED	: 11/06/2020 - 19/06/2020

Test Reference: A.O.A.C. 18th Edition

Composition: NULL

TEST	METHOD	RESULTS	UNITS
рН	AOAC 18TH edn	8.2	
Alcohol content (Ethanol)	GC-FID	78	% V/V

Alle

Hermina Ramela TECHNICAL SIGNATORY FOOD

Denotes test method is outsourced

o Refer to terms and conditions www.bureauveritas.co.za

o This report relates to only test items listed herein and analysis on an as received basis.

These tests do not apply to any other samples of a similar nature.

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13A Osborne Lane, Bedfordview 2007 P.O. Box 954, Bedfordview 2008 South Africa Telephone: 011 615-2855 Mobile : 082 850-5891 Telefax : 086 718-6968 E-mail : airsep@vodamail.co.za

TEST REPORT

REPORT NO.: AS-20-197 PAGE 1 OF 2

CERTIFICATE OF ANALYSIS No.: AS20-197

For: MIDWAY CASH & CARRY

RESULTS "ALCOHOL" CONTENT of HAND SANITIZER

1. Preamble

- 1.1 At present, alcohol–based hand sanitizers are the only known means for rapidly and effectively inactivating a wide array of potentially harmful microorganisms on hands.
- 1.2 The best effective means of determining the type and amount of alcohol used in the formulation is by Gas Chromatography.
- 1.3 The tests performed by AIRSEP follow the **WHO Specifications** and determine the alcohol content by means of a Gas Chromatographic analysis using certified reference standards.
- 1.4 All our instruments used are under constant validation protocol and comply with the ISO 17025 standard requirements.

2. Sample Information

PRODUCT	Derma Drop : Liquid Hand Sanitizer					
Batch No.	002823001183	Batch Weight				
Production Date	25/05/2020	Report Date	08/06/2020			

3. Test Data

Test Item	WHO Specification	SANS 490 Hygenic Handrub	Result
Appearance	Homogeneous liquid	Homogeneous liquid	Homogeneous liquid
рН	-	-	7.05
Density	-	-	0.8838 g/cm ³
Glycerol (% v/v)	1.45	-	0.367 %
Hydrogen Peroxide	0.125%	-	0.112 %
Alcohol as Ethanol (% v/v)	80 ±5 %	60 %	77.10 %
TOTAL ALCOHOL			77.10 %

P O Box 7954, Bedfordview 2008. Tel. 011 6152855 Fax 086 7186968 Cell: 0828505891 airsep@vodamail.co.za

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TEST REPORT

REPORT NO.: AS-20-197 PAGE 2 OF 2

CERTIFICATE OF ANALYSIS No.: AS20-197

For: MIDWAY CASH & CARRY

4. Comment

- 4.1 The WHO consensus of opinion of a WHO expert group recommend that hand rub formulations complying with WHO Specifications can be used for both hygienic hand antisepsis and for pre-surgical hand preparation.
- 4.2 The microbial activity of the WHO recommended formulation was tested by WHO reference Laboratories according to EN standards (EN1500). Their activity was found to be equivalent to the reference substance (isopropanol 60%v/v) for hygienic hand antisepsis.

5. Conclusion

- 5.1 Product "Liquid Hand Sanitizer" **COMPLIES** as an alcoholic-based hygenic handrub.
- 5.2 No further bacterial testing required as the alcohol content complies with WHO Specifications See Comment 4.2.
- 5.3 This complies with NRCS VC 9013 which embodies SANS 54885 and SANS 490.

Indemnity Clause

"No warranties or guarantees are given by Airsep SA cc, its employees, affiliates, consultants, subcontractors or representative regarding the accuracy or correctness of the above tests and Airsep SA cc, its employees, affiliates, consultants, sub-contractors or representatives are therefore indemnified, in the absence of gross negligence or wilful misconduct, against any and all damages, losses, claims and demands, including legal fees and expenses of whatsoever nature in respect of any damages suffered, directly or indirectly, resulting from the above tests."

Dr RF van de Water Responsible Laboratory Manager Date: 08 June 2020

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SAFETY DATA SHEET WATERLESS HANDSANITIZER

Revision: 01/2020 | Date Issued: 01/2020

COMPANY DETAILS

NAME:	Midway Cash & Carry (Pty) Ltd	EMERGENCY TEL:	27 82 776 1898
ADDRESS:	55 Chris Hani Rd, Protea South,JHB,1820	TEL:	27 82 776 1898
MANUFACTURER:	Midway Cash & Carry (Pty) Ltd	ADDRESS:	55 Chris Hani Rd, Prota South,JHB,1820

SECTION1-PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME:	Waterless Hand Sanitizer		
CHEMICAL FAMILY:	Alcohol blend		
CHEMICAL NAME:	Not Applicable (mixture)		
SYNONYMS:	Disinfectant hand and surface cleaner		
CHEMICAL ABSTRACT NO:	Mixture N/A		
HAZCHEM CODE:	3[Y]E		
UN NO:	1993 Flammable liquid		
	SECTION2-HAZARDOU	JS IDENTIFICATION	
MAIN HAZARD:	May be harmful if swallowed	CHEMICAL HAZARD:	None known
FLAMMABILITY:	Yes	BIOLOGICAL HAZARD:	None known
REPRODUCTIVE HAZARD:	None known MUTAGENIC: No		No
CARCINOGENIC:	No	NEUROTOXIN:	No





HEALTH HAZARDS (ACUTE AN	ID CHRONIC):		
HEALTH EFFECTS (eye contact)	Can cause temporary irritation and blurred vision		
HEALTH EFFECTS (skin contact)	Not expected to be problematic		
HEALTH EFFECTS (ingestion)	Nausea with stomach aches		
HEALTH EFFECTS (inhalation)	Irritation to respiratory tract with dizziness, headaches and fatigue		
		SECTION3-COMPOSITION	
HAZARDOUSCOMPONENTS:			
CHEMICAL NAME	CAS NO.	RECOMMENDED LIMITS	COMPOSITION RANGE
ETHYL ALCOHOL:	64-17-5	1000ppm (TWA)	<75%
GLYCEROL	56-81-5	0.05ppm (TLV)	<1.45%
HYDROGEN PEROXIDE	7722-84-1	No value established	<0.1%
EEC CLASSIFICATION: F XnXi		R Phrases: R10, R25/26/36/38/46	
	:	SECTION4-FIRST AID MEASURES	
PRODUCT IN EYE:	Flush eye with water lift	ing upper and lower lids. Get medical attention.	
PRODUCT ON SKIN:	Flush with water and remove contaminated clothes. Seek medical advice.		
PRODUCT INGESTED:	Induce vomiting immediately. Give 2 glasses of water and seek medical attention.		
PRODUCT INHALED: Remove to fresh air. Seek medical attention if breathing difficult.			
	SE	CTION5-FIREFIGHTING MEASURES	
Extinguishing media:	Water spray, dry chemi	cal or alcohol foam.	
SPECIAL HAZARDS:	Above flash point, vapo	ur-air mixtures are explosive.	
PROTECTIVE CLOTHING: Full protective clothing with self-contained breathing apparatus.			





	SECTION6-ACCIDENTAL RELEASE MEASURES
PERSONAL PRECAUTIONS:	Wear personal protective equipment as specified in section 8.
ENVIRONMENTAL PRECAUTIONS:	Do not flush to sewer or soil.
SMALL SPILLS:	Cover with inert absorbent material. Dispose in chemical waste containers. Rinse spill areas with fresh water.
LARGE SPILLS:	Contain and recover. Collect with inert material such as soil or sand. Dispose of in chemical waste containers. Rinse spill areas with fresh water.
	SECTION7-HANDLING AND STORAGE
SUITABLE MATERIAL:	Keep in original containers
HANDLING / STORAGE PRECAUTIONS:	Keep away from ignition sources and heat.
	SECTION8-EXPOSURE CONTROL/PERSONAL PROTECTION
OCCUPATION EXPOSURE LIMITS:	Ethanol – 1000ppm TWA, Glyecrol – 0.05ppm (TLV) Hydrogen peroxide – no value established
ENGINEERING CONTROL MEASURES:	A system of local or general exhaust is recommended.
PERSONAL PROTECTION: (respiratory)	If limit exceeded, full face-piece respirator.
PERSONAL PROTECTION: (hand)	Impervious protective gloves.
PERSONAL PROTECTION: (eye)	Face shield if splashing probable.
PERSONAL PROTECTION: (skin)	Boots, apron, overalls, as necessary to prevent skin contact.
	SECTION9-PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE:	Clear liquid
ODOUR:	Alcohol
pH (as is)	6.8 - 8.0
BOILING POINT:	Not known
MELTING POINT:	Not known
FLASH POINT:	16 - 23°C
FLAMMABILITY:	Yes





AUTO IGNITION:	No
EXPLOSIVE LIMITS:	Not known
OXIDIZING PROPERTIES:	Not applicable
VAPOUR PRESSURE:	Not known
DENSITY:	0,88
SOLUBILITY: (water)	Yes
SOLUBILITY: (solvent)	No
SOLUBILITY: (coefficient)	Not known
	SECTION10 – STABILITY AND REACTIVITY
CONDITIONS TO AVOID:	Light, heat and incompatibilities
INCOMPATIBLE MATERIALS:	Strong oxidizers, perchlorates, alkali metals, hydrogen peroxide.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide and dioxide
	SECTION11 – TOXICOLOGICAL INFORMATION
ACUTE TOXICITY:	Oral rat LD50 > 5000mg/kg
SKIN AND EYE CONTACT:	Irritant
CHRONIC TOXICITY:	Not available
CARCINOGENIC:	Linked to liver cancer
MUTAGENIC:	Investigated
REPRODUCTIVE HAZARD:	Not known



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55 Chris Hani Rd Protea South, JHB, 1840 010 446 1905

SECTION12-ECOLOGICAL INFORMATION		
AQUATIC TOXICITY: (fish)	Toxic	
AQUATIC TOXICITY: (daphnia)	Not known	
AQUATIC TOXICITY: (algae)	Not known	
BIODEGRADABLE:	Yes	
BIO-ACCUMULATION:	No	
MOBILITY:	Yes	
GERMAN WGK:	Not known	
SECTION13-DISPOSAL CONSIDERATIONS		
DISPOSAL CONSIDERATION:	Dilute and dispose at approved sites. Handle as hazardous waste.	
DISPOSAL OF PACKING:	Do not rinse and recycle. Dispose of in approved land fill sites.	
	SECTION14-TRANSPORT INFORMATION	
ROAD/RAIL ADR/RID		
CLASS:	3 Flammable	
PROPER SHIPPING NAME:	Flammable liquid, NOS	
UN NUMBER:	1993	
PACKAGING GROUP:	11	
SEA (IMDG)		
CLASS:	3 Flammable	
PROPER SHIPPING NAME:	Flammable liquid, NOS	
UN NUMBER:	1993	
PACKAGING GROUP:	11	
AIR (IATA – DGR)	1	
CLASS:	3 Flammable	
PROPER SHIPPING NAME:	Flammable liquid, NOS	
UN NUMBER:	1993	
PACKAGING GROUP:	11	
TREM CARD NO:	Not available	





SECTION15-REGULATORY INFORMATION		
EEC HAZARD CLASSIFICATION:	F Xn Xi	
NATIONAL LEGISLATION:	Not applicable.	
R PHRASES:	R10, R25/26/36/38/46	
S PHRASES:	S25/26, S37/39/46	
	SECTION16-OTHER INFORMATION	
when used in accordance with with occupational safety and he Systems to be dependable and designated herein, and does n	n of this MSDS may be required by law, but this is not an assertion that the substance is hazardous proper safety practices and normal handling procedures. Data supplied is for use only in connection ealth. The information contained herein has been compiled from sources considered by Hygiene d is accurate to the best of the company's knowledge. The information relates to the specific material not relate to the use in combination with any other material or any other process. Hygiene Systems njury to the recipient or third persons, for any damage to any property resulting for misuse of the	

Midway Cash & Carry (Pty) Ltd - Reg # 2014/260391/07

Waterless Hand Sanitiser Page 6 of 6





Certificate ZA19/210323

The management system of

Africa Vinegar

2 Atlas Road, Kempton Park, Northgate, Gauteng, 1549, South Africa

has been assessed and certified as meeting the requirements of

ISO 22000:2018

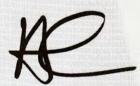
For the following activities

Manufacturing of bulk naturally fermented vinegar and apple cider vinegar

Food Category - CIV - Processing of ambient stable products This certificate is valid from 19 September 2019 until 18 September 2022 and remains valid subject to satisfactory surveillance audits. Re-certification audit due 60 days prior to expiry date Issue 1. Certified since 19 September 2019



Authorised by



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