

## **ADI SURFACE DISINFECTANT SUMMARY**

### **Certification List**

#### **International Certification**

**ADI is internationally certified on BS EN 1276:2009.**

This certification is reviewed every 3 years to assure highest standard of safety.

#### **European Food Safety Authority (EFSA)**

EFSA has confirmed that the active ingredients of ADI Surface Disinfectant are safe for human and animal consumption.

**ADI achieved a Log 6,25 reduction whereas the global standard is only Log 5.**

#### **National Certification**

##### **National Regulator for Compulsory Specifications (NRCS)**

- **NRCS registration no Act5GNR529/293389/140/1087**

##### **South African Bureau of Standards (SABS)**

- **SANS 1853:2017 compliant**

Safety certification for disinfectants used in the food industry

**Rigorous tests done by the following South African National Accreditation System (SANAS) accredited laboratories:**

- a. Intertek
- b. Aquatico
- c. CSIR
- d. Waterlab

### **ADI SURFACE DISINFECTANT IS:**

- **NON-TOXIC, ODOUR FREE, SAFE FOR HUMAN & ANIMAL CONSUMPTION ONCE DILUTED**
- **IS APPLIED WITHOUT NEED FOR SPECIALISED SAFETY EQUIPMENT/CLOTHING**
- **GUARANTEED TO KILL HARMFUL BACTERIA ON ANY SURFACE WHERE FOOD OR ANY ORGANIC MATTER IS PROCESSED**
- **EASY TO APPLY, NO RINSE, NO WIPE – JUST SPRAY AND LEAVE TO DRY**

# ADI SURFACE DISINFECTANT TEST REPORT SUMMARY



## Concise Water Quality Evaluation Test Report

Based on the assessment of variables analysed in comparison to 'SANS 241-1: 2015 Drinking Water Standard (SABS, 2015)' and 'Quality of Domestic water supplies' (WRC, 1998), the tested water sample is **Fit** for use as potable water and domestic use.

The water quality of the sample called '**ADI Sample**' can be described as neutral (pH 6.0 - 8.5), non-saline (TDS < 450 mg/l) and moderately soft (total hardness 50 - 100 CaCO<sub>3</sub>) with no *E.coli* and no total Coliforms detected.

## Certificate of Analyses: GENERAL WATER QUALITY PARAMETERS: ORP Levels



Analyses in mg/ℓ (Unless specified otherwise)	Method Identification	Sample Identification: ADI Surface Disinfectant			
		Powder (ADI) Initial Reading	After 1 Hour	After 2 Hour	After 3 Hour
Sample Number		056161	056162	056163	056164
Date/Time Sampled		N/A	N/A	N/A	N/A
Redox Potential in mV	N	953	993	983	1012

Analyses in mg/ℓ (Unless specified otherwise)	Method Identification	Sample Identification: ADI Surface Disinfectant			
		After 4 Hour	After 5 Hour	After 6 Hour	After 7 Hour
Sample Number		056165	056166	056167	056168
Date/Time Sampled		N/A	N/A	N/A	N/A
Redox Potential in mV	N	1017	1022	1014	1023

Analyses in mg/ℓ (Unless specified otherwise)	Method Identification	Sample Identification	
		After 8 Hour	
Sample Number		056169	
Date/Time Sampled		N/A	
Redox Potential in mV	N	1027	

Oxidation reduction potential (ORP) can be used for water system monitoring with the benefit of a single-value measure of the disinfection potential, showing the activity of the disinfectant rather than the applied dose.

[1] For example, *E. coli*, *Salmonella*, *Listeria* and other pathogens have survival times of under 30 s when the ORP is above 665 mV, compared against >300 s when it is below 485 mV.



## ADI SURFACE DISINFECTANT SUMMARY

### Analysis of Efficacy of ADI Water Purification Product



#### 4.1 E coli test results of water sample

	E. coli (Count per 100ml)	
	Sample A	Sample B
After Spiking with E Coli Bacteria	470 000	530 000
Count After 20 minutes	<1	
Count After 40 minutes		<1

## COMPARISON - INTERNATIONAL & LOCAL DISINFECTANT STANDARDS

### BS EN 1276:2009

Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.

- Requires Log 5 reduction (99,999%)
- Tests for 4 organisms

### SANS 1853:2017

Detergents, Detergent-Disinfectants and Antiseptics for use in the food industry

- Requires Log 3 reduction (99,9%)
- Tests for 3 organisms

### SANS 1828:2017

Cleaning chemicals for use in the food industry

*ADI is a disinfectant and not a cleaning chemical.*



# ADI

## Surface Disinfectant

*The very latest in chlorine-free disinfecting technology!*

## Why ADI is better?

- One small 55gram sachet mixed in 10 litres of tap water kills 99,999925% of all harmful bacteria in minutes
- Contains zero Chlorine.
- Laboratory tested and certified to comply with BS EN1276:2009 an internationally accepted standard.
- Registered with the National Regulator for Compulsory Specifications (NRCS)
- No toxic chemicals in the formula.
- No need to rinse off surfaces with water after application.
- No need to wipe surfaces dry after application.
- No need to leave treated surfaces for a "waiting period" while the toxicity of the disinfectant "wears off".
- The mixed solution remains effective at killing 99,999925% of all harmful bacteria for at least 24 hours – no need to continuously top-up the solution to keep it effective like Chlorine or Peroxide disinfectants.
- ADI has a natural Oxidation Reduction Potential (ORP) of 870mV. This ORP remains in the region of 870mV for at least 24 hours. The minimum ORP required to kill waterborne pathogens is 665mV. ADI has 31% higher ORP and thus is more effective at killing these pathogens.
- No need to wear gloves, overalls, safety boots etc, when mixing or applying the solution. Only goggles are indicated to ensure none of the dry ADI powder comes into contact with the eyes as a precautionary measure.



These notorious and well known bacteria are effectively eliminated by ADI:

- Pseudomonas aeruginosa
- Escherichia coli
- Staphylococcus aureus
- Enterococcus hirai
- Salmonella Typhimurium
- Lactobacillus brevis
- Enterobacter cloacta
- Listeria monocytogenes
- Shigella dysenteriae
- Cholera
- Typhoid