



MATERIAL SAFETY DATA SHEET

Description: SAF EA STERIFECT Revision Number: 03

Document Number: MSDS S023

ENVIRONMENTALLY ACCEPTABLE DISINFECTANT, STERILANT AND SANITIZER

GENERAL

- SAF-EA STERIFECT is electrochemically-activated sterilant, uniquely non-toxic.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance	-	Clear, colourless liquid
Density	g/cm ³	0.99 – 1.01
ORP reading	mV	Min 700
PH	-	6.55 – 7.40
Odour		Mild chlorine odour

PROPERTIES

- Broad microcidal capacity – bacteria, mycobacterium, viruses, fungi, moulds, bacterial and fungal spores, microbial toxins and protozoa
- Wide range of application – immersion, spraying, fogging, wiping, mopping, etc.
- Completely biodegradable
- Limited corrosion capacity relative to traditional disinfectants
- Non-allergenic, non-sensitising relative to chemical disinfectants
- Improve food product quality and extends shelf life
- Residual capacity exceeds most chemical disinfectants
- Eliminates bio film and prevents re-growth
- Lower concentrations of active components required for microbial elimination – combined electrical and chemical elimination
- Destroy toxic organic compounds – phenols, trihalomethanes, pesticides, herbicides

APPLICATION

Use neat for disinfection

Dilutions: 1:5 to 1:100 depending on application

1:10– Rinsing of fresh produce to extend shelf life

1:100 – Water purification

Apply by wiping, spraying, dipping, etc. No rinsing required

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Prepared by: Sabelo Dladla

Reviewed by: Zanele Selala

Status: Issued

Approved by: Doug Cutter

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NOTE: Product has a shelf life of 3 months if stored out of direct sunlight and at ambient temperatures.

THE RECOMMENDATIONS CONTAINED HERE-IN IS BASED ON LABORATORY TEST AND IN-FIELD USE EXPERIENCE, AND ARE TO THE BEST OF OUR KNOWLEDGE ACCURATE. SINCE TERMS AND CONDITIONS OF ACTUAL USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED.

CONTROLLED DOCUMENT

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Company Details

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1. Product Identification

Trade Name	SAF-EA STERIFECT	Product code: S023
Chemical Family	Neutral Anolyte	
Chemical Name	Electrically activated neutral Anolyte	
Product Use	Disinfecting, sanitising, sterilising	

2. Composition

CAS No.	Hazardous Components	Approx. %	OSHA PEL
N/A	No hazardous ingredients	N/A	N/A

3. Hazards Identification

Fire	Non-flammable
Inhalation	No effect
Skin contact	No effect
Eye contact	No effect
Ingestion	No effect

4. First Aid Measures

Inhalation	No effect
Skin contact	No effect
Eye contact	No effect
Ingestion	No effect, especially small quantities

5. Fire Fighting Measures

Non-flammable – can be used as an extinguisher
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6. Accidental Release Measures

Small spills	Leaks and spills can be treated in accordance with methods employed for ordinary water
Large spills	Leaks and spills can be treated in accordance with methods employed for ordinary water

7. Handling & Storage

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Handling	No special handling procedures
Storage	Store in a cool, dry area. Keep containers sealed out of direct sunlight at ambient temperatures. Shelf life is approximately 3 months from manufacturing date.

8. Exposure Controls/Personal Protection

None

9. Physical and Chemical Properties

Appearance	Clear colourless liquid
pH	6.55 – 7.40
Density (g/cm ³)	0.99 – 1.01
ORP reading (mV)	Min 700
Odour	Mild chlorine odour

10. Stability and Reactivity

Stability	Product retains its activity for 3 months (see section 7)
Hazardous decomposition products	Product degrades to water

11. Toxicological Information

Acute toxicity – oral	LD ₅₀ > 20 g/kg (due to disinfecting properties)
Toxicity	The product is non toxic by any routes.

12. Ecological Information

Biodegradability	Degrades to source water quality with low sodium chloride mineralisation not exceeding 65 ppm
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13. Disposal Considerations

Treat same as water

14. Transport Information

No special procedures – As per transportation of water

15. Regulatory Information

EC Classification	Non-flammable
Risk phrases	R36
Safety phrases	S25

16. Other Information

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References: SABS 0265: 1999, SABS ISO 11014-1: 1994

Issued by: Sabelo Dladla

EMERGENCY NUMBERS: 011 406 4000/ 082 412 2298

The information in this MSDS is based on current knowledge and experience at the date of publication. This MSDS summarises our best knowledge of the health and safety hazard information of the product and is intended only as a guide to the appropriate precautionary handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification of the product. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability for fitness for a particular purpose is made with respect to the product, its composition, its safety or the information contained in this MSDS sheet.

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
18/02/2011	Technical Manager	New Issue	MSDS S023	00
25/11/2011	Technical Manager	Amended statement under the subtitle "general".	MSDS S023	01
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS S023	02
21/10/2016	SHEQ Manager	Document Review	MSDS S023	03

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