

# MATERIAL SAFETY DATA SHEET

Description: SAF REX

Revision Number: 02

Document Number: MSDS R001



## A POWERFUL VERSATILE ALKALINE CHLORINATED DISINFECTANT CLEANER

### GENERAL

SAF – REX is an extremely powerful alkaline chlorinated detergent that disinfects, degreases, cleans, whitens cutting boards and removes blood spills leaving the surface spotless clean.

### FORMULATION

SAF – REX contains a unique non- ionic surfactant that has a very strong hydrophilic character, very good wetting properties and excellent chelating agents for maximum water softening to ensure disinfecting even on water with high hardness. This product contains a bactericide that covers a very wide spectrum

### PRODUCT DESCRIPTION

TEST	SPECIFICATION
Appearance	Granular chlorine alkaline powder
Odour	Chlorine
pH	9,0 - 11,5
Foam (1% solution)	Medium - High

### PROPERTIES

- \* Tested and complies with SABS 1196-1978 specifications
- \* Kills 99.9% organisms: P.aeruginosa, E.coli, S.aureus at 1:1000 in 30 seconds
- \* Very economical
- \* Non - corrosive
- \* Versatile - can be used on all surfaces, not affected by water hardness
- \* Contains wide spectrum bactericide
- \* Easily dissolves and rinsable -- leaves no residue.

### APPLICATION

#### APPROVED IN ACCORDANCE WITH SANS 1853

Prepared by: Sabelo Dladla

Approved by: Doug Cutter

Reviewed by: Doug Cutter

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1. Dissolve 1 sachet in 10 litres of water and allow 30 seconds contact time with the surface.
2. Apply solution by sprayer, mop, cloth etc. onto surface to be cleaned, allow 30 seconds contact time and rinse well with water especially on food contact areas.
3. For disinfecting purposes only, the product can be diluted up to 1:1000

REGISTRATION NUMBER: ACT 29GNR529/205700/072/570

**NOTE: MATERIALS TO AVOID INCLUDE NITROGEN CONTAINING COMPOUNDS (AMMONIA, AMINES, UREA, ETC) AND ACIDS. DO NOT MIX WITH ANY OTHER CHEMICAL.**

**THE RECOMMENDATIONS CONTAINED HERE-IN ARE BASED ON LABORATORY TESTS AND INFIELD 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.**

### Company Details

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Postal Address	PO BOX 1754, Alberton North, 1450	e-mail:	<a href="mailto:technical@safic.co.za">technical@safic.co.za</a>

## 1. Product Identification

Trade Name	SAF – REX	Product code:	R001
Chemical Family	Chlorinated alkaline powder with anticorrosive properties.		
Chemical Name	Chlorinated alkaline powder.		
Product Use	Disinfectant for all hygiene sensitive areas.		
UN Number	3077(Miscellaneous substances)		

## 2. Composition

CAS No.	Hazardous Components	Approx. %	OSHA PEL
2893-78-9	Sodium dichloroisocyanurate	<30	Oral-hmn LDLo: 3570 mg/kg: GIT
6834-92-0	Sodium metasilicate (P)	<30	Skn-hmn 250 mg/24H SEV
EEC Classification	Irritant (Xi), SAF-REX		
R Phrases	R22, R36/37/38, R41 SAF-REX		

## 3. Hazards Identification

Main hazard	Irritant and can form explosive reactions with nitrogen compounds.
Inhalation	Irritant- coughing, avoid dust inhalation.
Skin contact	Skin irritant may cause burns.
Eye contact	Burning, avoid eye contact at all times.
Ingestion	Burning of throat, poisonous when ingested.

## 4. First Aid Measures

Inhalation	Remove patient to fresh air.
Skin contact	Remove all contaminated clothing including footwear. Rinse affected area with water; apply hand cream if necessary to replenish moisture.
Eye contact	Flush with running water for at least 15 min, irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If discomfort persists, seek medical attention.
Ingestion	Rinse mouth with water, allow patient as much water as possible. Do not induce vomiting. Seek medical attention.

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### 5. Fire Fighting Measures

Product is non flammable, use suitable extinguish media to surrounding fire.	
Special hazard	Explosive mixtures are formed in reaction with nitrogen containing compounds.
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent equipment.

### 6. Accidental Release Measures

Personal precaution	Avoid prolonged skin contact and do not mix with any other chemical.
Environmental precaution	Do not discharge large quantities into storm water drains.
Small spills	Remove and contain excess powder, flush residue with water.
Large spills	Prevent the discharge of large quantities of concentrated product into sewerage and watercourses.

### 7. Handling & Storage

Handling	Handle with care and do not mix with any other chemical.
Storage	Store in a cool dry place. Keep container closed. Avoid storing near ACIDS and NITROGEN containing compounds.

### 8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
Safety goggles (VNC11 – supplier – MSA) should be supplied.
If prolonged or frequent contact is expected, <b>NEOPRENE</b> gloves (Technic 420 – supplier – MSA) should be utilised
Handle in a well ventilated area, or 6300 respiratory/6059 cartridge & N95 pre - filter (3M – supplier) should be utilised if ventilation is not adequate or when handling large quantities.

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### 9. Physical and Chemical Properties

Appearance	Granular chlorine alkaline powder
Odour	Chlorine
pH (1% solution)	9.0 - 11.5
Foam ( 1% solution)	Medium – high

### 10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible	Oxidizing agents, nitrogen containing compounds (ammonia, amine, urea, etc) and acids, releases toxic explosive fumes. Never mix with any other chemical.
Hazardous decomposition products	When mixed with nitrogen containing compounds releases toxic explosive fumes.

### 11. Toxicological Information (based on sodium dichloroisocyanurate)

Toxicity	Acute oral: LD50: 735 mg/kg, rat.
	Acute dermal: LD50: 200 mg/kg, rabbit.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic effects.
Teratogenicity	No evidence of teratogenic effects.
Reproductive hazard	Not expected to impair fertility

### 12. Ecological Information (based on sodium dichloroisocyanurate )

Acute toxicity – fish	96h LC50: 0.22 mg/l
Acute toxicity - Daphnia	48h LC50: 0.20 mg/l
Bacterial	The product can be toxic to plants and other living organisms at excessive quantities.
Biodegradability	The product is readily biodegradable
Bioaccumulation	No possibility

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### 13. Disposal Considerations

For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options

Permissible under applicable rules, regulations, and/or laws governing your location.

Disposal of packaging      Recycle or provide approved to drum collectors.

### 14. Transport Information

UN No.	3077
Substance identity no	R001
Packaging group	Class 9: Irritant powder
ADR/RID class	III
Marine Pollutant	No
IMO/IMDG Classification	IMDG Class 9 Irritant powder
IATA Classification	Class 9 Irritant powder

### 15. Regulatory Information

EEC-hazard classification	Irritant (Xi)
Risk phrases	R22 R36/37/R38, R41
Safety phrases	S22, S24/25, S26

### 16. Other Information

References: SABS 0265: 1999, SABS 0228: 1995, SABS ISO 11014-1: 1994, M.S.D.S. (Suppliers of raw's)

Issued by: Sabelo Dladla

**EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298**

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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.	
11/02/2011	Technical Manager	New Issue	MSDS R001	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS R001	01
21/02/2017	Operations Director	Document Review and UN number change	MSDS R001	02

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