

MATERIAL SAFETY DATA SHEET

Description: SAF BLEACH **Revision Number:** 01
Document Number: MSDS B015



FORMULATION

SAF-BLEACH is a concentrated, liquid chlorine stain remover, deodoriser and sanitizer formulated for rapid chlorine release.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
APPEARANCE	-	PALE YELLOW LIQUID
pH	-	11.50 – 13.50
DENSITY	g/cm ³	1.090 – 1.150

PROPERTIES

- Stabilised chlorine source.
- Concentrated formula.
- Can be used for stain removal, bleaching and disinfecting.

APPLICATION

LAUNDRY:

STAIN REMOVAL:

1. Use 20 to 40ml of SAF-BLEACH for every 10kg of linen processed.
2. Soak for 10 to 15 minutes.
3. Rinse
4. Repeat if necessary.

BLEACHING:

1. Use 10 to 25ml of SAF-BLEACH for every 10 kg of linen processed.
2. Rinse
3. Repeat if necessary.

IMPORTANT: When used as directed, product is safe on cotton, linen and many synthetic fabrics. MAY AFFECT NATURAL SILK, WOOL OR NYLON FIBRES.

DISINFECTION: SAF-BLEACH is not a disinfectant or cleaner. All equipment must be cleaned with a detergent prior to sanitising. Use 1 part SAF-BLEACH and 250 parts water (200 ppm available chlorine). Apply to surfaces as wet spray or soak small items in a bucket of the solution. Allow a 5 minute contact period.

CORROSIVE MATERIAL – CONTAINS SODIUM HYPOCHLORITE.
KEEP OUT OF REACH OF CHILDREN.
DO NOT MIX WITH ACIDS OR OTHER CHEMICALS.

Prepared by: Sabelo Dladla	Approved by: Doug Cutter
Reviewed by: Doug Cutter	Revision Date: 9 March 2017
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OTHER

AVOID CONTACT WITH SKIN OR EYES OR ANY
MUCOUS MEMBRANES.

THE RECOMMENDATIONS CONTAINED HERE-IN IS BASED ON LABORATORY TESTS AND INFIELD USE EXPERIENCE, AND ARE TO THE BEST OF OUR KNOWLEDGE ACCURATE. SINCE TERMS AND CONDITIONS OF ACUTAL 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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Address	32 Steele Street, Steeledale, JHB	Fax:	011 406 4202
Postal Address	PO BOX 1754, Alberton, 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF-BLEACH	Product code:	B015
Chemical Family	Formulated chemical		
Chemical Name	Sodium Hypochlorite		
Product Use	General disinfectant and bleach.		
UN Number	1791 (Hypochlorite Solutions)		

2. Composition

CAS No.	Hazardous components	Approx. %	Limit
7681-52-9	Sodium Hypochlorite	<10	Eye - rbt 10 mg MOD
EEC classification	Irritant (Xi), SAF - BLEACH		
R Phrases	R36/37/38, SAF – BLEACH		

3. Hazards Identification

Main hazard	Irritant (Xi)
Fire	Non - flammable.
Inhalation	Under normal circumstances it does not held a threat, but can cause shortness of breath. Corrosive and irritating.
Skin contact	Itching, irritation and burning sensation.
Eye contact	Stinging and burning sensation. Redness and swelling of eyelids. Risk of injury.
Ingestion	Irritation of mouth and throat. Burning sensation in stomach. Stomach cramps. Nausea and vomiting. General weakness, dizziness.

4. First Aid Measures

Inhalation	Move patient to fresh air/ Give artificial respiration and call a doctor immediately.
Skin contact	Remove contaminated clothing. Rinse affected area with water for 10 min. Seek medical attention if burning or swelling persists.
Eye contact	Flush eyes with water for at least 15 minutes. Seek medical attention. Do not allow the patient to rub the eyes.
Ingestion	Give as much water as possible, Seek immediate medical attention.

5. Fire Fighting Measures

Extinguishing media	Product is non-flammable, use extinguishing agents suitable for surrounding fire.
Special hazard	Chlorine will be liberated on reactions with acids.

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Protective clothing	Approved self - contained breathing apparatus should be utilised or equivalent equipment.
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6. Accidental Release Measures

Environmental Precautions	As per good environmental management practices, prevent contamination of watercourses or ground with large quantities of undiluted product.
Small spills	Remove excess with absorbent material and flush residue with plenty of water.
Large spills	Dyke ahead of liquid spill for later disposal. Prevent the discharge of large amounts of concentrated product into sewerage, and watercourses.

7. Handling & Storage

Handling	Norma handling procedure for chlorine based bleach. to minimise personal exposure
Storage	Store in a cool dry area. Keep containers sealed.

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
If the specific application may result in splashing, safety goggles (VNC11 supplier – MSA) should be utilised.
Neoprene (Technic 420-supplier MSA) gloves should be utilised.
Work in a well-ventilated area or 6300 type mask/6059 cartridge (3M – supplier) should be utilised where ventilation isn't adequate.

9. Physical and Chemical Properties

Appearance	Pale yellow liquid
pH	11.50 – 13.50
Specific gravity	1.090 – 1.150g/cm ³

10. Stability and Reactivity

Stability	Stabilised chlorine source.
Avoid the following conditions:	Avoid contact with eyes and skin.
Hazardous decomposition products	When heated to decomposition it emits toxic fumes of Na ₂ O and Cl. Avoid mixing with HCL acid.

11. Toxicological Information (based on sodium hypochlorite)

Skin & eye contact	Skin and eye irritant. Can cause severe damage to eyes & skin burns.
Chronic toxicity	Corrosive and irritating by inhalation and ingestion.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	Human mutation data reported.
Teratogenicity	No evidence of teratogenic effects.

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12. Ecological Information (based on sodium hypochlorite)

Aquatic toxicity – rainbow trout	The product is harmful to aquatic environment at excessive quantities.
Aquatic toxicity - daphnia	The product is harmful to aquatic environment at excessive quantities.
Aquatic toxicity – algae	The product is harmful to plants at excessive quantities.
Biodegradability	The product is readily biodegradable
Bioaccumulation	No possibility of bio accumulation.

13. Disposal Considerations

Disposal methods identified are for the product as sold. 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.

When disposing of large quantities, the alkaline nature and solubility of the product in water (section 9) should be taken into consideration.

14. Transport Information

UN No	1791
Substance identity no	B015
ADR/RID class	Class 8: Corrosive liquid
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	Class 8: Corrosive liquid
IATA Classification	Class 8: Corrosive liquid

15. Regulatory Information

EEC- Hazard classification	Corrosive (C)
Risk phrases	R36/37/39
Safety phrases	S24/25

16. Other Information

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

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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 B015	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS B015	01
09/03/2017	Operations Director	Document review, UN no update	MSDS B015	02

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