

MATERIAL SAFETY DATA SHEET

Description: SAF LAUNDRY POWER

Revision Number: 02

Document Number: MSDS P005LP



GENERAL

SAF LAUNDRY POWER is a versatile, highly concentrated detergent for the effective cleaning of dirty laundry.

FORMULATION

SAF LAUNDRY POWER is based on a balance of biodegradable, non-ionic and anionic surfactants, coupling agents, chelating and soil suspending inorganics. SAF LAUNDRY POWER contains a special sodium salt, which improves the product's effectiveness over a wide range of applications as an anionic surfactant.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Green transparent liquid
Density	g/cm ³	1,06 - 1,10
pH		12.0 – 13.8
NVC	% m/m	22.0 – 29.0

PROPERTIES

- * SAF LAUNDRY POWER is highly concentrated.
- * Dosing of product can be varied depending on type of dirt and load.
- * Due to the fact that SAF LAUNDRY POWER contains no free caustic, it is safe to use.
- * SAF LAUNDRY POWER has non-corrosive properties.
- * The water based nature of SAF LAUNDRY POWER renders it non-flammable.
- * SAF LAUNDRY POWER has special soil suspending agents in the formulation making it effective in the removal of dirt.
- * It is recommended that SAF LAUNDRY POWER be used in conjunction with MAGICMAID LIQUID LAUNDRY DETERGENT and SAF-INDUSTRIAL FABRIC SOFTENER

Prepared by: Sabelo Dladla

Reviewed by: Doug Cutter

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APPLICATION

Directions:

1. Use 40 -100 ml of SAF LAUNDRY POWER to 5kg - 11kg of clothes (dosage can be varied depending on type of dirt).
2. Then wash with MAGICMAID LIQUID LAUNDRY DETERGENT.
3. Finally use SAF-INDUSTRIAL FABRIC SOFTENER for best results.

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.

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Company Details

Name	S.A.F.I.C (PTY) LTD	Tel:	(011) 406 4000
Address	32 Steele Street, Steeldale, JHB, 2067	Fax:	(011) 406 4070
Postal Address	PO BOX 1754, Alberton North, 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF LAUNDRY POWER	Product code:	P005LP
Chemical Family	Water based liquid laundry cleaner with degreasing properties		
Chemical Name	Formulated chemical		
Product Use	Laundry cleaner		

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
1310-58-3	Potassium hydroxide	< 5	CL 2 mg/m ³
111-76-2	Glycol ether	< 10	25ppm TWA; 120mg/m ³
EEC classification	Irritant (Xi), SAF LAUNDRY POWER		
R Phrases	R36/37/38, SAF LAUNDRY POWER		

(No free potassium hydroxide available in formulation – reacted with sulphonic acid)

3. Hazards Identification

Main Hazard	Irritant
Fire	Non-flammable
Inhalation	Excess spray – coughing
Skin contact	Irritant. Prolonged or frequent contact may lead to defatting of skin
Eye contact	Irritant. Burning
Ingestion	Symptom: nausea & vomiting.

4. First Aid Measures

Inhalation	Move patient to fresh air.
Skin contact	Rinse area well with water. If necessary, use a hand-cream to replenish moisture.
Eye contact	Flush eyes with water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If irritation persists, seek medical attention.
Ingestion	Rinse mouth with water, and allow patient as much water as possible. If large quantities have been swallowed obtain medical attention.

5. Fire Fighting Measures

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Product non-flammable. Use extinguishing agents suitable for surrounding fire.

Self contained breathing apparatus or equivalent should be utilised should there be fire in surrounding area.

6. Accidental Release Measures

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.
General	When disposing large quantities, the alkaline nature of the product should be taken into consideration.

7. Handling & Storage

Handling	Normal handling procedure for heavy duty detergents to minimise personal exposure
Storage	Store in a cool dry area. Keep containers sealed. No special requirements.

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 gloves (Technic 420-supplier MSA) 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	Clear green liquid
pH	12.0 – 13.8
Density	1.06 – 1.10 g/cm ³
Non volatile	22.0 – 29.0 %m/m
Solubility (water)	100 %

10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong acids
Hazardous decomposition products	Toxic fumes may be liberated on decomposition

11. Toxicological Information (based on KOH)

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Toxicity	Skin (human): 50 mg/24H SEV.
	Acute oral: LD50 = 365 mg/kg, rat
Carcinogenicity	No evidence of carcinogenic properties
Mutagenicity	No evidence of mutagenetic effects
Neurotoxicity	No evidence of neurotoxic effects
Reproductive hazard	No hazard expected.

12. Ecological Information (based on glycol ether)

Fathead minnow	96 hr bioassay LC50: 1700 mg/l
Daphnia Magna	48 hr bioassay LC50: >1000 mg/l
Bacterial	IC50: > 5000 mg/l
Biodegradability	Biodegradation: 88 % 20 days
Bio accumulation	No possibility of bio accumulation.
Other Information	The chemical nature of the surfactants needed to remove oil is detrimental to the cell surface membranes of most marine organisms. Most oil dispersants tested by the Sea Fisheries Research Institute show toxicity to sea urchin gametes in the 2 – 20ppm range. SAF LAUNDRY POWER falls into the normal range for oil dispersants. (1)

Taken from correspondence with the Sea Fisheries Research Institute. Reference V1/1/3/4/5. (1994)

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.	
Dilute product 1000 times and run to waste with plenty of water.	
When disposing of large quantities, the alkaline nature and solubility of the product in water (section 9) should be taken into consideration.	
Disposal of packaging	Packaging should be recycled.

14. Transport Information

Substance identity no	P005LP
ADR/RID class	N/A
Packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	N/A
IATA Classification	N/A

15. Regulatory Information

EEC-hazard classification : Irritant (Xi)	
Risk phrases	R36/37/38
Safety phrases	S24/25 S36

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16. Other Information

References: SABS 0265:1999, SABS 0228:1995, SABS ISO 11014-1:1994, Sax Dangerous Goods, Raw Material Manufacturer's MSDS's.

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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.	
15/07/2011	Technical Manager	New Issue	MSDS P005LP	00
08/03/2013	Technical Manager	Grammar corrections and changes on document	MSDS P005LP	01
09/03/2017	Operations Director	Document review	MSDS P005LP	02

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