

MATERIAL SAFETY DATA SHEET

Description: SAF MAT Revision Number: 01
Document Number: MSDS M002



GENERAL

SAF-MAT is a carpet shampoo and upholstery cleaner developed to include properties, which prevent the build up of static electricity in synthetic-fibre carpets, while maintaining a high level of cleaning power.

FORMULATION

SAF-MAT consists of anionic and amphoteric surfactants, anti-static ingredients, and optical brighteners.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Description		<i>Milky emulsion, lavender odour</i>
Density	g/cm ³	1.00 – 1.02
pH		7.0 – 10.0

PROPERTIES

- Formulated foaming properties.
- Short drying time.
- High cleaning powers.
- Good elimination of residues.
- Simple methods of use for the consumer.
- Anti-static effect on synthetic-fibre carpets.
- Safe on all carpets if used as directed.
- Safe for use on upholstery if used as directed.

APPLICATION

APPLICATION OF LIQUID SHAMPOO:

1. Vacuum the carpet.
2. Dilute 1 part of SAF-MAT with 10-12 parts of water.
3. Work this solution uniformly into the carpet using a sponge or brush, avoiding excessive wetting.
4. When completely dry, vacuum.
(Carpet or upholstery should be tested for colourfastness at a place where the result will not be seen).

Prepared by: Sabelo Dladla
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EXPERIMENTAL TESTS ON SAF-MAT IN USE (CLEANSING & ANTI-STATIC EFFECT)

The experiments below were carried out on normally soiled carpets including nylon, felt, propylene felt, woven wool carpet, tufted nylon carpet, tufted fleece - nylon carpet.

To test the removal of soiling agents 50ml of the following mixture was applied to a tufted nylon tile measuring

20 x 50 cm.

50 g orange juice

50 g cola

50 g condensed milk

50 g flour

Made up with water to 1 litre

50 g sugar (62,5% solution in water)

50 g household dust

50 g coffee extract

Using a drying time of about 48 hours at room temperature, the subsequent cleaning process showed that the mixture could be satisfactorily removed, even from the tufted nylon tile.

ANTI-STATIC EFFECT

This was determined by the method given in TNO Report CL71/237

CARPET	MAX CHARGE ON SUBJECT VOLTS		NO. OF PERSONS BY WHOM TRAVERSED	TREATMENT
	LEATHER SOLE	PLASTIC SOLE		
NYLON FELT	- 2200	- 2800	0	
	+ 48	+ 70	0	
	+ 46	+ 60	1000	SAF-MAT
	+ 38	+ 50	2000	
	+ 40	+ 60	3000	
NYLON	+ 32	+ 55	5000*	
	- 2600	- 3300	0	
	+ 35	+ 55	0	
	+ 40	+ 60	1000	
	+ 45	+ 45	2000	SAF-MAT
	+ 38	+ 50	3000	
	+ 34	+ 50	5000*	

* After ca. 2 months

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NOTE:

1. Keep out of reach of children.
2. If you have, sensitive skin wash your hands after contact with this detergent.

PRODUCT	CLEANING EFFECT	RESISTANCE TO RESOILING	RESIDUAL REMOVAL
SAF-MAT	VERY GOOD	VERY GOOD	VERY GOOD
PROD A	MODERATE	POOR	POOR
PROD B	MODERATE	GOOD	GOOD
PROD C	POOR	GOOD	GOOD
PROD D	MODERATE	POOR	POOR
PROD E	GOOD	VERY POOR	VERY POOR
SULPHOSUCCINIC ACID TESTER	GOOD	VERY GOOD	VERY GOOD

The tests were carried out using equal concentrations of dry substance of the detergent and polymer. The final test concentration was 2% and the concentration of detergent and polymer was always in the same ratio.

APPLICATION

Vacuum the carpet and test for colourfastness by applying carpet shampoo in diluted form to an inconspicuous area of the carpet with a clean cloth. If no colour is apparent on the cloth after application, then proceed. Dilute 1 part of SAF-MAT with up to 12 parts of water. If using a sponge or brush, this solution should be worked into the carpet uniformly, avoiding excessive wetting. If using electric shampoo applicators, remove tank from machine and mix shampoo solution in dilution rate stated above. Apply foam to carpet and work areas of 1m x 1m at a time until foam disappears. Avoid excessive wetting. When completely dry, the dirt, which has been collected in the residue, is removed with a vacuum cleaner.

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:	+27 11 406 4000
Address	32 Steele Street, Steeledale, Jhb	Fax:	+27 11 406 4252
Postal Address	PO BOX 1754, Alberton North, 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF – MAT	Product Code: M002
Chemical Family	Anionic and amphoteric surfactants	
Chemical Name	Formulated chemical	
Product Use	Carpet cleaning detergents	

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
N/A	Non hazardous ingredients	N/A	N/A
EEC classification	Irritant (Xi), SAF - MAT		
R Phrases	R36/R38, SAF – MAT		

3. Hazards Identification

Main hazard	Irritant
Inhalation	No effect
Skin contact	Irritant, prolonged exposure may result to defatting of skin.
Eye contact	Irritant
Ingestion	Nausea, vomiting

4. First Aid Measures

Inhalation	Remove patient to fresh air.
Skin contact	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. Seek medical attention.

5. Fire Fighting Measures

Product is non-flammable, use suitable extinguishing agents to surrounding area.	
Special hazard	None known
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent equipment.

6. Accidental Release Measures

Personal precaution	Avoid prolonged contact with the product. Product may render surfaces slippery.
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Environmental Precautions	When disposing large quantities, the alkaline nature of the product should be considered.
Small spills	Remove excess with absorbent material and flush residue with water.
Large spills	Dyke ahead of liquid spill for later disposal. Prevent the discharge of large quantities of concentrated product into sewerage and watercourses.

7. Handling & Storage

Handling	Normal handling procedure for detergents to minimise personal exposure to the product.
Storage	Store in a cool dry place. Keep container closed. 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 supplied.
If prolonged or frequent contact is expected, NEOPRENE gloves (Technic 420 – supplier – MSA) should be utilised

9. Physical and Chemical Properties

Appearance	Milky emulsion liquid
pH	7.0 – 10.0
Density	1.00 – 1.02 g/m ³
Solubility (water)	100 %

10. Stability and Reactivity

Stability	Stable under normal conditions.
Conditions to avoid	Strong alkalis
Hazardous decomposition products	None Known. When burning carbon monoxide and dioxide may be released.

11. Toxicological Information (based on surfactants)

Toxicity	The product is irritating to skin and eyes.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic effects.
Teratogenicity	No evidence of teratogenic effects.

12. Ecological Information (based on surfactants)

Acute toxicity – fish	The product can only be toxic to aquatic organisms at excessive quantities. Low toxicity product.
Acute toxicity - daphnia	The product can only be toxic to aquatic organisms at excessive quantities. Low toxicity product.
Acute toxicity – algae	The product can only be toxic to plants at excessive quantities. Low toxicity product.
Biodegradation	The product is readily biodegradable

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Bioaccumulation	Bioaccumulation in not expected
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13. Disposal Considerations

Dilute product 1000 times when disposing small quantities and run to waste. 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 to drum collectors.
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14. Transport Information

Substance identity no	M002
ADR/RID class	N/A
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	N/A
IATA Classification	N/A

15. Regulatory Information

EC Classification	Irritant (Xi)
EC Risk phrases	R36/38
EC Safety phrases	S24/25

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

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 regarding the precautionary handling, 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 and/or its composition.

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APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
20/05/2013	Technical Manager	New Issue	MSDS M002	00
13/03/2017	Operations Director	Document review	MSDS M002	01

CONTROLLED DOCUMENT

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