

MATERIAL SAFETY DATA SHEET

Description: SAF GERM

Revision Number: 01

Document Number: MSDS G001



GERMICIDAL CLEANER, DEODORANT & DISINFECTANT

GENERAL

SAF-GERM is a light duty cleaner and disinfectant designed for general use where light duty cleaning and sanitising is of prime importance.

FORMULATION

SAF-GERM is based on dimethyl benzyne, QAC's, non-ionic surfactants, colouring and perfume. The quaternary ammonium compound in the formula has extremely powerful and broad-spectrum bactericidal properties and will kill the following bacteria:

- * *E coli and salmonella typhi*
- * *Staphylococcus aureus*
- * *Salmonella chloraesuis*
- * *Pseudomonas aeruginosa*
- * *Trichophyton interdigitale (fungicidal activity against)*
- * *High algicidal activity*
- * *Choleraesuis pyrenoidose*
- * *Phormidium inundatum*

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATIONS
Appearance		Yellow transparent liquid
Fragrance		Pine
Density	g/cm ³	0,98 - 1,01
pH		10,24 – 10,77

PROPERTIES

- * Economical - dilutes up to 1:100
- * 3 in 1 - cleans, disinfects and deodorises
- * Pleasant fragrance

Prepared by: Sabelo Dladla
Reviewed by: Doug Cutter
Status: Issued

Approved by: Doug Cutter
Revision Date: 30 March 2015
Issue Date: 30 March 2015

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET

Description: SAF GERM

Revision Number: 01

Document Number: MSDS G001



APPLICATION

For light duty cleaning, sanitising and deodorising dilute 1:50 in cold water.

For heavier contamination and use against fungicidal activity, dilute 1:15 in cold water.

Dilute the product at 1:5 for disinfection purposes and allow 5 min of contact time.

For disinfecting food processing equipment or food contact items, limit the dilution to 1:100. At this level, no portable water rinse is required.

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.

CONTROLLED DOCUMENT

Prepared by: Sabelo Dladla

Reviewed by: Doug Cutter

Status: Issued

Approved by: Doug Cutter

Revision Date: 30 March 2015

Issue Date: 30 March 2015

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET

Description: SAF GERM Revision Number: 01

Document Number: MSDS G001



Company Details

Name	S.A.F.I.C (PTY) LTD	Tel:	+27 11 406 4000
Address	32 Steele Street, Steeldale, JHB	Fax:	+27 11 406 4252
Postal Address	PO BOX 1754, Alberton 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF-GERM	Product Code:	G001
Chemical Family	Non-ionic & cationic surfactants, disinfectants		
Chemical Name	Formulated chemical		
UN Number	3082 (Miscellaneous substances)		

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
N/A	N/A	N/A	N/A
EEC classification	Irritant (Xi), SAF- GERM		
R Phrases	R36/38, SAF-GERM		

3. Hazards Identification

Main hazard	Irritant
Inhalation	Excess – coughing
Skin contact	Irritant. Prolonged or frequent contact may lead to defatting of skin
Eye contact	Irritant. Burning.
Ingestion	Nausea, vomiting

4. First Aid Measures

Inhalation	Remove to fresh air.
Skin contact	Remove contaminated clothing and wash area well with water.
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. Seek medical attention (treat for QAC ingestion).

5. Fire Fighting Measures

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

Prepared by: Sabelo Dladla
Reviewed by: Doug Cutter
Status: Issued

Approved by: Doug Cutter
Revision Date: 30 March 2015
Issue Date: 30 March 2015

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET

Description: SAF GERM Revision Number: 01

Document Number: MSDS G001



6. Accidental Release Measures

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 amounts of concentrated product into sewerage, and water courses.

7. Handling & Storage

Handling	Normal handling procedure for 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 supplied.
If prolonged or frequent contact is expected, NEOPRENE gloves (Technic 420 – supplier – MSA) should be utilised

9. Physical and Chemical Properties

Appearance	Clear fluorescent liquid, pine odour
pH	10.24 – 10.77
Density	0.98 – 1.01 g/cm ³
Cloud point	5 °C maximum

10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong oxidants and acids
Hazardous decomposition products	None known, when burning toxic gases will be liberated.

11. Toxicological Information (based on Q.A.C.)

Toxicity	LD50: 457 – 750 mg/kg (rat)
	LD50 : 1560 mg/kg (rat)
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.

Prepared by: Sabelo Dladla
Reviewed by: Doug Cutter
Status: Issued

Approved by: Doug Cutter
Revision Date: 30 March 2015
Issue Date: 30 March 2015

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET

Description: SAF GERM **Revision Number:** 01

Document Number: MSDS G001



12. Ecological Information (based on glycol ether)

Aquatic toxicity – rainbow trout	LC 50 : 1700 mg/l
Aquatic toxicity - daphnia	LC 50 : >1000 mg
Aquatic toxicity - algae	IC 50 : > 5000 mg/l
Biodegradability	The product is readily biodegradable
Bioaccumulation	There is no possibility of bioaccumulation.

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 wash thoroughly to be re-used.

14. Transport Information

UN Number	3082
Substance identity no	G001
ADR/RID class	Class 9: Irritant liquid
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	IMDG Class 9 Irritant liquid
IATA Classification	Class 9 Irritant liquid

15. Regulatory Information

EEC-hazard classification	Irritant (Xi)
Risk phrases	R22/36/37/38
Safety phrases	S24/25, S62

16. Other Information

References : SABS 0265:1999, SABS 0228: 1995, SABS ISO 11014-1:1994, M,S,D,S,(Suppliers of raw's)
EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298

Prepared by: Sabelo Dladla
Reviewed by: Doug Cutter
Status: Issued

Approved by: Doug Cutter
Revision Date: 30 March 2015
Issue Date: 30 March 2015

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET

Description: SAF GERM	Revision Number: 01
Document Number: MSDS G001	



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 G001	00
30/03/2015	Operations Director	Review	MSDS G001	

Prepared by: Sabelo Dladla	Approved by: Doug Cutter
Reviewed by: Doug Cutter	Revision Date: 30 March 2015
Status: Issued	Issue Date: 30 March 2015

It is the responsibility of the user to verify that this copy is the latest version.