

MATERIAL SAFETY DATA SHEET

Description: SAF TRIO Revision Number: 03

Document Number: MSDS T004



ODOUR MASKING DISINFECTANT CLEANER

GENERAL

SAF-TRIO is a water-based, three in one product for cleaning, odour masking and disinfecting of refuse areas, drains, urinals, ablution areas, mortuaries, etc.

FORMULATION

Powerful blend of chlorobenzene, non-ionic surfactants, quaternary ammonium compounds, alcohol, naphthalene and perfume.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATIONS
Appearance		Clear violet liquid
Perfume		Chlorobenzene, Naphthalene, Cherry
Density	g/cm ³	1,01 - 1,04
Flash point		Nil
pH Conc.		6.0 - 8.0
Biodegradability	%	95 %
TLV	ppm	200

PROPERTIES

- * Powerful odour masking properties.
- * Contains wide spectrum bactericides including quaternary ammonium compounds.
- * Excellent cleaner/degreaser.
- * Insect and moth repellent.
- * Biodegradable.
- * Safe on all surfaces.
- * Very economical.
- * Complies with Transnet specification CSS 285/37.01.

Prepared by: Sabelo Dladla
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APPLICATION

- * For cleaning - dilute up to 1:200.
- * For disinfecting - dilute up to 1:100.
- * For deodorising - dilute up to 1:100.
(For obnoxious odours, a lower dilution is recommended).
- * Apply by sprayer, mop, pressure cleaner etc. onto surface to be cleaned.
- * When using the product at high dilutions, and sterilising and deodorising properties are required, do not rinse off.

BACTERIAL ACTIVITY

TESTED AND COMPLIES IN ACCORDANCE WITH SABS 636 METHOD.

100% kill rate in 5 min

SAF-TRIO was tested in killing the following bacteria.

Ps Aeruginosa
Salmonella Typhi
Esch Coli

Staph Aureus
Candida Albicans
Oospora Lactis

REGISTRATION NUMBER: ACT GNR529/205700/040/581

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 ACTUAL USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED.

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Company Details

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Postal Address	PO BOX 1754, Alberton North, 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF - TRIO	Product Code:	T004
Chemical Family	Orthodichlorobenzene, surfactant, QAC		
Chemical Name	Formulated chemical		
Product Use	Odour masking treatment-disinfectant-degreaser		
UN Number	3082 (Environmentally hazardous substance)		

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
95-50-1	Orthodichlorobenzene	10 – 30	CL 50 ppm
71-23-8	Naphthalene	<10	TWA 200 ppm, STEL 250 ppm
91-20-3	Propanol	10 - 20	TWA 200 ppm, STEL 250 ppm
EEC Classification	Harmful (Xn)		
R Phrases	R20/21/22 R52		

3. Hazards Identification

Main hazard	Harmful, do not use on food contact areas.
Inhalation	Irritant to eyes, nose & throat. Headache, dizziness over prolonged exposure, use in well ventilated area and wear mask.
Skin contact	Irritant, prolonged exposure may result to defatting of skin. Avoid contact with skin.
Eye contact	Watering of eyes, burning sensation, possible serious damage to eyes.
Ingestion	Nausea, vomiting, possible serious damage to lungs.

4. First Aid Measures

Inhalation	Remove patient to fresh air. Provide suitable masks for future purposes.
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. Seek medical attention immediately.
Ingestion	Do not induce vomiting. Seek medical attention immediately.

5. Fire Fighting Measures

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Extinguishing media	Product non-flammable. Use extinguishing agents for surrounding fire.
Special hazard	Toxic fumes will be liberated when burning.
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent.

6. Accidental Release Measures

Personal precaution	The product is harmful on ingestion, avoid unnecessary skin contact, use in a well ventilated area and do not breath vapour.
Environmental precaution	The product is harmful to aquatic organisms, do not discharge to storm water drains, and soil etc.
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 heavy duty odour masking disinfectants to minimise personal exposure
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, NITRILE gloves (Ultranitril 492 – supplier – MSA) should be utilised
Handle in a well ventilated area, or 6300 respiratory/6059 cartridge (3M – supplier) should be utilised if ventilation is not adequate.

9. Physical and Chemical Properties

Appearance	Clear violent liquid
pH	6.0 - 8.0
Density	1.01-1.04 g/cm ³
Emulsifiability (5%)	Stable for 1 hr
Solubility (water)	Emulsifies

10. Stability and Reactivity

Stability	Stable under normal conditions.
Conditions to avoid	Strong acids and oxidizers
Hazardous decomposition products	None Known. When heated toxic fumes of chlorine, nitrogen oxide will be released.

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11. Toxicological Information (based on Ortho Dichlorobenzene)

Toxicity	Acute oral : LD50 : 500 mg/kg, rat
	IPR - RAT : LD50: 840 mg/kg
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	Mutation data reported
Teratogenicity	Experimental teratogenic effects reported.

12. Ecological Information (based on ODB)

Acute toxicity – fish	96 hr LC50: 27 mg/l, harmful to aquatic organisms.
Acute toxicity - daphnia	48 hr EC50: 3.8 mg/l, harmful to aquatic organisms.
Acute toxicity – algae	96 hr EC50: 2.2 mg/l, harmful to plants.
Biodegradability	Modified SCAS primary degradation, 95% (24 hrs), Inherently biodegradable.

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	
Disposal of packaging	Strictly provide to approved drum collectors or recovers.
Permissible under applicable rules, regulations, and/or laws governing your location.	

14. Transport Information

UN Number	3082
Substance identity no	T004
ADR/RID class	Class 9: Environmentally hazardous substance
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	IMDG Class 9 Environmentally hazardous substance
IATA Classification	Class 9: Environmentally hazardous substance

15. Regulatory Information

EC Classification	Harmful (Xn)
EC Risk phrases	R20/21/22 R52
EC Safety phrases	S24/25 S36/37/38 S46

16. Other Information

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

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
11/02/2011	Technical Manager	New Issue	MSDS T004	00
07/09/2012	Technical Manager	Corrected NCRS registration number.	MSDS T004	01
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS T004	02
16/02/2017	Operations Director	Document Review	MSDS T004	03

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