

MATERIAL SAFETY DATA SHEET

Description: SAF DISINFECTANT
CONCENTRATE

Revision Number: 02

Document Number: MSDS DIS100-CONC



HEAVY DUTY ANTIBACTERIAL SURFACE CLEANER

GENERAL

SAF-DISINFECTANT CONCENTRATE is a heavy-duty degreaser containing a disinfectant for use in areas where hygiene is a priority, such as kitchens, hospitals, clinics etc. The raw materials used in SAF-DISINFECTANT CONCENTRATE are suitable for use in food processing areas.

FORMULATION

SAF-DISINFECTANT CONCENTRATE contains a selection of non-ionic and anionic surfactants, solvents and QAC.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		Clear red liquid
pH		Min 12
Density	g/cm ³	0.990 – 1.025

PROPERTIES

- SAF-DISINFECTANT CONCENTRATE has a dual purpose - it disinfects whilst cleaning
- Excellent degreasing properties
- Contains food approved solvents to speed up the cleaning process

APPLICATION

The product should be diluted up to 1:100 for disinfecting purposes.

Product applications

Degreasing, Canopies, Floors, Fridges, and Hard Surfaces

REGISTRATION NUMBER: ACT 5GNR529/205700/040/0608

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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Prepared by: Sabelo Dladla

Approved by: Doug Cutter

Reviewed by: Zanele Mthimunya

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Company Details

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1. Product Identification

Trade Name	SAF-DISINFECTANT CONCENTRATE	Product Code: DIS100-CONC
Chemical Family	Anionic & non-ionic surfactants, QAC, glycol solvents & salts.	
Chemical Name	Formulated chemical	
Product Use	General purpose cleaning & disinfecting.	

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
141-43-5	2-aminoethanol	< 10	TWA 3 ppm; STEL 6 ppm
6834-92-0	Sodium Metasilicate	<5	250 mg/24H SEV (skn – hmn)
111-76-2	Glycol ether	< 10	25ppm TWA; 120mg/m ³
EEC classification	Irritant (Xi), SAF-DISINFECTANT CONCENTRATE		
R Phrases	Irritant (Xi), SAF-DISINFECTANT CONCENTRATE		

3. Hazards Identification

Main Hazard	Irritant (Xi)
Fire	Non-flammable
Inhalation	Spray application – irritant, coughing (R37)
Skin contact	Irritant. Prolonged or frequent contact may lead to defatting of skin
Eye contact	Irritant. Burning (R36)
Ingestion	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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Extinguishing media	Product non-flammable. Use extinguishing agents suitable for surrounding fire.
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.
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 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	Normal handling procedure for heavy duty detergents to minimise personal exposure.
Storage	Store in a cool dry area. Keep containers sealed. Store in plastic containers.

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.
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 red liquid
pH (10%)	Min 12
Density	0.990 – 1.025g/cm ³
Solubility (water)	100 %
Flashpoint	Non flammable

10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong oxidizing agents or strong acids.

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Hazardous decomposition products	Toxic nitrogen oxides may be liberated on decomposition.
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11. Toxicological Information (based on MEA)

Acute toxicity - oral	LD50: 2050 mg/kg, rat.
Acute toxicity - dermal	LD50: 2000 mg/kg, rabbit.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence mutagenic effects.
Teratogenicity	No evidence of teratogenic effects.
Reproductive hazard	Not expected to impair fertility

12. Ecological Information (based on Glycols)

Oxygen Demand, mgO ₂ /mg	2.3
Bacterial IC ₅₀ , mg/L	> 5000
Fathead Minnow LC ₅₀ , mg/L	1700
Daphnia Magna LC ₅₀ , mg/L	> 1000
Biodegradation, %	20 Days = 88 Natural acclimation in wastewater treatment or general environment would increase the rate and extent of biodegradation
Bioaccumulation	Not likely – product is biodegradable and water soluble

13. Disposal Considerations

Disposal method	Dispose as per local agreed government method
Small quantities: Dilute product 1000 times and run to waste with plenty of water.	
When disposing of large quantities, the alkaline nature of the product should be taken into consideration.	
Prevent the discharge of large amounts of concentrated product into sewerage and watercourses.	
Disposal of packaging	Recycle or provide to drum collectors.

14. Transport Information

Substance identity no	DIS100-CONC
ADR/RID class	N/a
IMDG – 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	S36/37/39
Label phrase	S45

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Environmental Control	S61
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16. Other Information

Reference: SABS 0265: 1999, SABS 0228: 1995, SABS ISO 11014-1: 1994, M.S.D.S. (Suppliers of raw materials)
Issued by: Sabelo Dladla
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.	
13/04/2011	Technical Manager	New Issue	MSDS DIS100-CONC	00
25/09/2013	Technical Manager	Inclusion of NRCS Registration number and change of logo	MSDS DIS 100-CONC	01
22/05/2017	Operations Director	Review and update of Section 14	MSDS DIS 100 CONC	02

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