

MATERIAL SAFETY DATA SHEET

Description: SAF EA RINSE AID

Revision Number: 00

Document Number: MSDS A013



Powerful low foam concentrate for automatic dishwashing applications

Benefits

- ◆ Highly economical - dilute up to 1:200
- ◆ Excellent wetting properties
- ◆ Eliminates water marks
- ◆ Leaves dishes shiny and spotless
- ◆ Environmentally acceptable - biodegradable
- ◆ User friendly - no aggressive chemicals
- ◆ Cost and labour effective

Application

- ◆ Use according to the machine-manufacturers dosing instructions.
- ◆ Recommended dilution 1 part of the product to 200 parts of water.

The recommendations contained herein 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

APPROVED IN ACCORDANCE WITH SANS 1828

Prepared by: Sabelo Dladla

Approved by: Doug Cutter

Reviewed by: Zanele Mthimunye

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Company Details

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1. Product Identification

Trade Name	SAF-EA RINSE AID	Product code: A013
Chemical Family	Aqueous blend of alcohol and surfactants	
Chemical Name	Formulated chemical	
Product Use	Automatic dishwashing	
UN Number	3082 (Miscellaneous substance)	

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
67-63-0	Alcohol derivates	< 20	TWA 400, STEL 500 ppm
EEC classification	Irritant (Xi), SAF – EA RINSE AID		
R Phrases	R36, SAF – EA RINSE AID		

3. Hazards Identification

Main hazard	Irritant
Inhalation	No effect, when sprayed – coughing
Skin contact	Mild irritant to skin
Eye contact	Irritant to eyes
Ingestion	Nausea, vomiting

4. First Aid Measures

Inhalation	Ensure supply of fresh air
Skin contact	Rinse with water
Eye contact	Flush eyes abundantly with water, holding the eyelids apart, for at least 10 minutes. If irritation persists, seek medical attention.
Ingestion	Drink a few glasses of water or milk. Do not induce vomiting. Seek medical assistance.

5. Fire Fighting Measures

Suitable extinguishing media	Non-flammable, use suitable extinguishing agents to surrounding area
Special hazard	The product contains alcohol which will support combustion.
Protective clothing	Approved self contained breathing apparatus should be utilized or equivalent equipment.

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6. Accidental Release Measures

Personal precaution	Prolonged contact to concentrate can result on skin defatting.
Environmental precaution	Avoid discharging of large quantities to sewerages and drains.
Small spills	May be flushed to drains with plenty of water
Large spills	Remove excess material with sand and flush residue with plenty of water.

7. Handling & Storage

Handling	Normal handling procedure for detergent to minimize personal exposure.
Storage	Store in a cool dry place, away from direct sunlight.

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 utilized if prolonged frequent contact is expected.

9. Physical and Chemical Properties

Appearance	Clear green liquid
pH (10% w/w)	7.5 - 9.0
Density	0.97 - 0.99
Solubility (water)	Miscible

10. Stability and Reactivity

Stability	Stable under normal conditions.
Hazardous combustion or decomposition products	Burning of alcohol can produce carbon monoxide and/or carbon dioxide

11. Toxicological Information (based on ALCOHOL)

Toxicity	Acute oral: LD50: 5045 mg/kg, rat
	Acute dermal:LD50 : 12800 mg/kg, rabbit
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

12. Ecological Information (based on ALCOHOL)

Aquatic toxicity – rainbow trout	The product can be toxic to aquatic organisms at excessive quantities.
Aquatic toxicity – daphnia	The product can be toxic to aquatic organisms at excessive quantities.
Aquatic toxicity – algae	The product can be toxic to plants at excessive quantities.

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Biodegradability	Readily biodegradable - >60% BOD, 28 days.
Bioaccumulation	No possibility of bio accumulation

13. Disposal Considerations

Dispose as per local government agreed method.	
Disposal of packaging	Recycle or wash thoroughly to be re-used.

14. Transport Information

UN Number	3082
Substance identity no	A013
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	R36
Safety phrases	S25

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
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.

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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 A013	00

CONTROLLED DOCUMENT

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