



MATERIAL SAFETY DATA SHEET

Description: SAF EA AUTO DISH **Revision Number:** 02

Document Number: MSDS A012

Automatic dishwashing low foaming concentrate for hotel, restaurant and industrial use

Benefits

- ◆ Low foaming product
- ◆ Formulated to compensate for increased soil loads
- ◆ Excellent detergency - emulsifies oils and greases
- ◆ Effective at high temperatures and short washing cycles
- ◆ Excellent wetting properties
- ◆ Exceedingly good rinsability
- ◆ Environmentally acceptable - biodegradable
- ◆ Cost and labour effective

Application

- ◆ Use according to the machine-manufacturers dosing instructions.
- ◆ Recommended dilution 1 part of the product to 10 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

Revision Date: 09 March 2017

Status: Issued

Issue Date: 09 March 2017

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Company Details

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1. Product Identification

Trade Name	SAF-EA AUTODISH	Product code: A012
Chemical Family	Aqueous blend of inorganic builders and surfactants	
Chemical Name or synonym	Formulated chemical	
Product Use	Automatic dishwashing	
UN Number	3082 (Miscellaneous substances)	

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
1310-58-3	Potassium Hydroxide	<10	CL 2 mg/m ³
EEC classification	Irritant (Xi), SAF – EA AUTODISH		
R Phrases	R36, SAF – EA AUTODISH		

3. Hazards Identification

Main hazard	Irritant or has a corrosive effect on prolonged skin contact, avoid eye contact with concentrate at all cost.
Inhalation	No effect
Skin contact	Irritant, after prolonged exposure
Eye contact	Burning, might damage eyes as a concentrate
Ingestion	Burning of throat, nausea, vomiting

4. First Aid Measures

Inhalation	No effect
Skin contact	Remove contaminated clothing and wash skin well with large volume of water. Seek medical assistance in case of burns.
Eye contact	Flush eyes abundantly with water, holding the eyelids apart, for at least 10 minutes. If irritation persists, seek medical attention.
Ingestion	Drink large quantities of water or milk. Do not induce vomiting. Seek medical assistance.

5. Fire Fighting Measures

Fire and explosion hazard	Not inflammable or explosive, but reactions with some metals (see paragraph 10) can generate hydrogen gas, which is inflammable in air (between 4 and 75% by volume).
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Suitable extinguishing media	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

Ensure suitable personal protection is used during removal of spillages.
Prevent the discharge of large amounts of product into sewerage, and water courses.
Take up with absorbent material (sand, earth) and flush residue with plenty of water.

7. Handling & Storage

Handling	Handle in a normal procedure for detergents to minimize personal exposure.
Storage	Store in a cool dry area. Keep container closed when not in use.

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 utilized.
Neoprene gloves (Technic 420-supplier MSA) should be utilized when handling concentrate.

9. Physical and Chemical Properties

Appearance	Clear straw yellow liquid
pH (10% w/w)	13.00 – 14.00(1% m/m)
Density	1.15 - 1.17
Solubility (water)	Miscible

10. Stability and Reactivity

Stability	Stable under normal conditions.
Hazardous reactions	Reacts with aluminium, zinc, tin and alloys of these metals producing flammable hydrogen gas. Reacts with acids, chlorinated hydrocarbons.

11. Toxicological Information (based on ingredients used)

Acute oral toxicity (rabbit)	Potassium hydroxide: LD ₅₀ = 500mg/kg
Acute dermal/eye irritation	May cause severe skin/eye irritation, burning.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic effects.
Teratogenicity	No evidence of teratogenic effects.
Reproductive hazard	No possibility of reproductive hazard

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12. Ecological Information (based on ingredients used)

Toxicity	The product can be toxic to aquatic organisms at excessive quantities.
Biodegradability	Readily biodegradable
Bioaccumulation	Not expected to bio accumulate

13. Disposal Considerations

Disposal methods	Dispose as per local agreed government method.
When disposing of large quantities, the silicon nature of the product should be taken into consideration.	
Disposal of packaging	Recycle or wash thoroughly to be re-used.

14. Transport Information

UN Number	3082
Substance identity no	A012
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	R35 R36/37/38
Safety phrases	S2, S2, S27 , S37/39

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

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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.	
18/02/2011	Technical Manager	New Issue	MSDS A012	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS A012	01
09/03/2017	Operations Director	Document review	MSDS A012	02

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