

MATERIAL SAFETY DATA SHEET



Description: SAF EA RINSE AID

Revision Number: 01

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
Reviewed by: Zanele Selala
Status: Issued

Approved by: Doug Cutter
Revision Date: 31 October 2016
Issue Date: 31 October 2016

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Company Details

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

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 | |

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 should be utilised. |
| Neoprene gloves 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

| | |
|-------------------------|------|
| Substance identity no | A013 |
| 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 |
| Safety phrases | S25 |

16. Other Information

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|--|
| 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 |
| 31/10/2016 | Operations Director | Review of Section 14 | MSDS A013 | 01 |
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