

MATERIAL SAFETY DATA SHEET

Description: SAF SWISH Revision Number: 02

Document Number: MSDS S012



GENERAL

SAF-SWISH is a deodorising maintenance cleaner for removing dirt, grease and light calcium deposits.

FORMULATION

SAF-SWISH is based on a blend of acids and a selection of non-ionic surfactants, alcohols and a perfume.

PRODUCT DESCRIPTION

| <u>TEST</u> | <u>UNIT OF MEASURE</u> | <u>SPECIFICATION</u> |
|---------------------|------------------------|----------------------|
| APPEARANCE | - | Clear, red liquid. |
| SPECIFIC GRAVITY | g/cm ³ | 1.03– 1.05 |
| pH @ 25°C | | 2.0 – 3.0 |
| SOLUBILITY IN WATER | - | Completely soluble. |

PROPERTIES

- ❖ General maintenance cleaner with a very pleasant fragrance.
- ❖ Gentle, yet very effective cleaner.
- ❖ Developed for every day use.
- ❖ Regular use prevents the build-up of light calcium.
- ❖ Non-corrosive.
- ❖ Effective hard surface cleaner.
- ❖ Very effective on tile and enamel surfaces.

APPLICATION

1. Fast and effective cleaning of chrome, plastic, porcelain, enamel, ceramics, glass etc.
2. Can be applied with a spray bottle, mop, cloth, sponge etc.
3. General cleaning - Dilutions can be used at 1: 50 on all hard surfaces.
4. Dilutions at 1: 10 to clean windows and remove light calcium build-up.

Prepared by: Sabelo Dladla
Reviewed by: Doug Cutter
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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.

CONTROLLED DOCUMENT

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Company Details

| | | | |
|----------------|-----------------------------------|---------|--|
| Name | S.A.F.I.C (PTY) LTD | Tel: | +27 11 406 4000 |
| Address | 32 Steele Street, Steeledale, JHB | 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-SWISH | Product Code: | S012 |
| Chemical Family | A selection of acids, non-ionic surfactants, alcohol and perfume. | | |
| Chemical Name | Formulated chemical | | |
| Product Use | General maintenance cleaner and deodoriser. | | |

2. Composition

| CAS No. | Hazardous Components | Approx. % | OSHA PEL |
|--------------------|----------------------------|-----------|---------------------------|
| 7664-38-2 | Phosphoric acid. | <10 | TWA – 1mg/m ³ |
| 71-23-8 | Propyl alcohol | <10 | TWA 200 ppm, STEL 250 ppm |
| EEC classification | Irritant (Xi), SAF – SWISH | | |
| R Phrases | R36/37/38, SAF – SWISH | | |

3. Hazards Identification

| | |
|--------------|---|
| Main hazard | Irritant |
| Fire | Non flammable. |
| Inhalation | Irritant. |
| Skin contact | Can be corrosive to skin at prolonged skin contact. |
| Eye contact | Burning blurred vision. |
| Ingestion | Nausea, vomiting, burning of throat. |

4. First Aid Measures

| | |
|--------------|--|
| Inhalation | Move patient to fresh air. |
| Skin contact | Wash skin thoroughly with water and apply cream. |
| Eye contact | Wash eyes for at least 15 minutes. Seek medical advice immediately. |
| Ingestion | Wash mouth out with water. Drink water and milk. Do not induce vomiting. Seek medical attention immediately. |

5. Fire Fighting Measures

| | |
|---------------------|---|
| Extinguishing media | Product non-flammable. Use extinguishing agents suitable for surrounding fire. |
| Special hazard | Product will generate heat in contact with water. |
| Protective clothing | Approved self contained breathing apparatus should be utilised or equivalent equipment. |

6. Accidental Release Measures

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| | |
|---------------------------|--|
| Personal precautions | The product is mild acidic and prolonged skin contact should be avoided. |
| Environmental precautions | As per good environmental management practices, prevent contamination of watercourses or ground with large quantities of undiluted product |
| Small spills | Neutralise with SAF – EA NUETRALISER and flush residue with plenty of water. |
| Large spills | Dyke ahead of liquid spill. Prevent the discharge of large amounts of concentrated product into sewerage, and watercourses. Neutralise with SAF – EA NUETRALISER and dispose small quantities to effluent with plenty water. |

7. Handling & Storage

| | |
|----------|---|
| Handling | Normal handling procedure for mild acidic detergents to minimise personal exposure. |
| Storage | Store in a cool dry area. Keep containers sealed. |

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 |

9. Physical and Chemical Properties

| | |
|----------------------|--|
| Appearance and odour | Clear, red liquid with a pleasant odour. |
| pH@25°C | 2.0 – 3.0 |
| Specific Gravity | 1.03 – 1.05 g/cm ³ |
| Flash point | Non flammable. |

10. Stability and Reactivity

| | |
|----------------------------------|---|
| Stability | Stable under normal conditions. |
| Avoid the following conditions: | Keep away from strong alkalis and sodium tetrahydroborate. |
| Hazardous decomposition products | Emits toxic fumes of PO _x and Na ₂ O. |

11. Toxicological Information (based on phosphoric acid)

| | |
|-----------------------|---|
| Acute oral toxicity | LD50: 1654 mg/kg, rat. |
| Acute dermal toxicity | LD50: 2962 mg/kg, rabbit. |
| Carcinogenicity | No evidence of carcinogenic properties. |
| Mutagenicity | No evidence of mutagenic effects. |
| Teratogenicity | No evidence of teratogenic effects. |

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|---------------------|----------------------------------|
| Reproductive hazard | Not expected to impair fertility |
|---------------------|----------------------------------|

12. Ecological Information (based on phosphoric acid)

| | |
|----------------------------------|---|
| Aquatic toxicity – rainbow trout | LC50 :10 mg/l |
| Aquatic toxicity – daphnia | May be toxic to aquatic organisms at very large quantities, since that will result to a drop in pH value for water. |
| Aquatic toxicity – algae | >1000 mg/l |
| Biodegradability | 80% (based on surfactant) |
| Bioaccumulation | The product is readily biodegradable so there is no possibility. |

13. Disposal Considerations

| | |
|--|---|
| Disposal method | Neutralise the product before disposing of it using SAF – EA NEUTRALISER for small quantities. Prevent discharge of large quantities to sewerages & waterways |
| First neutralise the product with SAF – EA NEUTRALISER before containing, flush area with water. Dispose as per agreed local government method for large quantities. | |
| Disposal of packaging | Recycle or provide to drum collectors or recovers. |

14. Transport Information

| | |
|-------------------------|------|
| Substance identity no | S012 |
| 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 | S26, S36/37/39 |

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 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. | |
| 11/02/2011 | Technical Manager | New Issue | MSDS S012 | 00 |
| 20/05/2013 | Technical Manager | Document review and change of Company logo. | MSDS S012 | 01 |
| 15/10/2014 | Operations Director | Density of product reviewed | MSDS S012 | 02 |
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