

MATERIAL SAFETY DATA SHEET

Description: SAF AUTOWASH Revision Number: 02

Document Number: MSDS A006



HIGH FOAM VEHICLE CLEANER

GENERAL

SAF-AUTO WASH is water based cleaner suitable for use in automatic car washing machines.

FORMULATION

SAF-AUTO WASH contains salts, glycol ethers, sulphonic acid, sulphates, and a colorant.

PRODUCT DESCRIPTION

| TEST | UNIT | SPECIFICATION |
|----------------|-------------------|-------------------------|
| Appearance | - | Clear pink / red liquid |
| pH | - | 12.0 –13.9 |
| Density | g/cm ³ | 1.037 -1.060 |
| Foam Test (1%) | cm ³ | High |

PROPERTIES

- Can be diluted up to 1:50 with water
- Non-flammable
- Product contains soil suspending properties to prevent the re-depositing of dirt
- Safe on all hard surfaces
- Safe to use, contains no free caustic
- Can be used through portable foaming equipment

APPLICATION

Automatic car washing:

- Final dilution with water – 1:50.
- Follow instructions as per specific machine.

Prepared by: Sabelo Dladla
Reviewed by: Doug Cutter
Status: Issued

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General cleaning:

- Dilute product up to 1:50 with water.
- Apply by hand or with a foaming unit.

THE RECOMMENDATIONS CONTAINED HERE-IN IS 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: | 011 406 4000 |
| Address | 32 Steele Street, Steeledale | Fax: | +27 11 406 4252 |
| Postal Address | 1754, Alberton, 1450 | e-mail: | technical@safic.co.za |

1. Product Identification

| | | | |
|-----------------|--|---------------|------|
| Trade Name | SAF-AUTOWASH | Product Code: | A006 |
| Chemical Family | Water based degreaser (containing surfactants, chelating and soil suspending inorganics) | | |
| Chemical Name | Formulated chemical | | |
| Product Use | Cleaning and degreasing of most hard surfaces | | |
| UN No. | 3082 (Miscellaneous substances) | | |

2. Composition

| CAS No. | Hazardous Components | Approximate % | OSHA PEL |
|--------------------|-------------------------------|---------------|----------------------------------|
| 1310-58-3 | Potassium hydroxide | < 10 | CL 2 mg/m ³ |
| 111-76-2 | Glycol ether | <10 | 25ppm TWA; 120 mg/m ³ |
| EEC classification | Irritant (Xi), SAF - AUTOWASH | | |
| R Phrases | R36/37/38, SAF – AUTOWASH | | |

(No free potassium hydroxide available in formulation – reacted with sulphonic acid)

3. Hazards Identification

| | |
|--------------|---|
| Main Hazard | Irritant |
| Fire | Non-flammable |
| Inhalation | Excess spraying in confined areas may lead to coughing. |
| Skin contact | Irritant. Prolonged or frequent contact may lead to defatting of skin |
| Eye contact | Irritant. Burning |
| Ingestion | Nausea and possibly vomiting. |

4. First Aid Measures

| | |
|--------------|---|
| Inhalation | Move patient to fresh air and apply at ventilated areas. |
| 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. |

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5. Fire Fighting Measures

| | |
|---------------------|---|
| Extinguishing media | Product is non-flammable, use extinguishing agents suitable for surrounding fire. |
| Special hazard | None known |

6. Accidental Release Measures

| | |
|---------------------------|--|
| Personal precaution | Avoid prolonged contact with the product. Product may render surfaces slippery. |
| Environmental Precautions | As per good environmental management practices, prevent contamination of watercourses or ground with large quantities of undiluted product. |
| 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 detergents to minimise personal exposure. |
| Storage | Store in a cool dry area. Keep containers sealed. No special requirements. |

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 pink / red liquid |
| pH | 12.0 – 13.9 |
| Density | 1.037 – 1.060 g/cm ³ |
| Foaming | High foam |
| Solubility (water) | 100 % |

10. Stability and Reactivity

| | |
|-----------|---------------------------------|
| Stability | Stable under normal conditions. |
|-----------|---------------------------------|

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| | |
|----------------------------------|--|
| Incompatible materials | Strong acids and oxidizing agents. |
| Hazardous decomposition products | Toxic fumes may be liberated on decomposition. |

11. Toxicological Information (based on KOH)

| | |
|---------------------|---|
| Toxicity | Skin (human): 50 mg/24H SEV. Acute oral: LD50 = 365 mg/kg, rat |
| Carcinogenicity | No evidence of carcinogenic properties |
| Mutagenicity | No evidence of mutagenetic effects |
| Teratogenicity | No evidence of teratogenic effects |
| Reproductive hazard | Not expected to impair fertility |

12. Ecological Information (based on glycol ether)

| | |
|------------------|-------------------------------------|
| Fathead minnow | 96 hr bioassay LC50: 1700 mg/l |
| Daphnia Magna | 48 hr bioassay LC50: >1000 mg/l |
| Bacterial | IC50: > 5000 mg/l |
| Biodegradability | Biodegradation: 88 % 20 days |
| Bio accumulation | No possibility of bio accumulation. |

13. Disposal Considerations

| |
|---|
| Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations, and/or laws governing your location. |
| Dilute product 1000 times and run to waste with plenty of water for small quantities. |
| When disposing of large quantities, the alkaline nature and solubility of the product in water (section 9) should be taken into consideration. |

14. Transport Information

| | |
|-------------------------|------|
| Substance identity no | A006 |
| 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 |

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| | |
|----------------|------------|
| Safety phrases | S24/25 S36 |
|----------------|------------|

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.

APPENDIX A

| Revision Date (dd/mm/yy) | Issued By | Revision History | | Revision No. |
|-----------------------------|---------------------|---|-----------|--------------|
| | | Description | DCN No. | |
| 18/02/2011 | Technical Manager | New Issue | MSDS A006 | 00 |
| 20/05/2013 | Technical Manager | Document review and change of Company logo. | MSDS A006 | 01 |
| 14/04/2017 | Operations Director | Document review, Section 14 Revised | MSDS A006 | 02 |
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