



## MATERIAL SAFETY DATA SHEET

**Description:** SAF EA DEGREASE    **Revision Number:** 01

**Document Number:** MSDS B017

### WATER-BASED DEGREASER

#### GENERAL

SAF-EA DEGREASE is a versatile cleaner that effectively removes grease and fatty deposits.

#### FORMULATION

SAF-EA DEGREASE consists of complexing agents, other salts and a cationic/non-ionic surfactant blend. The surfactant used is chosen for its greater environmental acceptability compared to other surfactants available on the market.

#### PRODUCT DESCRIPTION

| TEST                 | UNIT              | SPECIFICATION    |
|----------------------|-------------------|------------------|
| Appearance           | -                 | Clear red liquid |
| Density              | g/cm <sup>3</sup> | 1.05 – 1.10      |
| PH                   | -                 | 13.0 – 14.0      |
| Non volatile content | % m/m             | 15.0 –17.0       |
| Cloud point          | °C                | 5 maximum        |

#### PROPERTIES

- Can be diluted up to 1:200 with water
- Effectively removes organic soils (oil, fat, grease) and dirt
- Good risibility – leaves no residue
- Safe on all hard surfaces
- Environmentally acceptable:
  - Surfactant has a primary degradation > 90%
  - Complies with the EEC directive 73/404/EEC on biodegradation for surfactants
  - Biodegradable – bio - accumulation of the surfactant in the environment is not likely.

**Prepared by:** Sabelo Dladla  
**Reviewed by:** Zanele Selala  
**Status:** Issued

**Approved by:** Doug Cutter  
**Revision Date:** 7 November 2016  
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### APPLICATION

- Dilute 1:20                    -Heavy duty degreasing (e.g. car engines, garage floors and walls, lawnmowers, tools, etc.)
- Dilute 1:40                    -Effective removal of grease, red wine, ink, shoe polish, and beetroot stains from fabrics
- Dilute 1:100                    -Light duty degreasing and maintenance cleaning
- Dilute 1:200                    -General cleaning (e.g. floors, walls, tiles, etc.)

Apply the product to the surface to be cleaned. Spray, mop or wipe the surface, and rinse.

**THE RECOMMENDATIONS CONTAINED HERE-IN IS BASED ON LABORATORY TEST AND IN-FIELD 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.**

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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: | <a href="mailto:technical@safic.co.za">technical@safic.co.za</a> |

## 1. Product Identification

|                 |  |                    |
|-----------------|--|--------------------|
| Trade Name      | SAF-EA DEGREASE  | Product Code: B017 |
| Chemical Family | Cationic/non-ionic surfactant blend, complexing agents |                    |
| Chemical Name   | Formulated chemical                                    |                    |
| Product Use     | Heavy duty degreaser/general purpose cleaner           |                    |

## 2. Composition

| CAS No.            | Hazardous Components            | Approximate % | Limit                       |
|--------------------|---------------------------------|---------------|-----------------------------|
| 6834-92-0          | Sodium metasilicate (P)         | <10           | 250 mg/24H SEV ( skn – hmn) |
| EEC classification | Irritant (Xi), SAF- EA DEGREASE |               |                             |
| R Phrases          | R36/38, SAF-EA DEGREASER        |               |                             |

## 3. Hazards Identification

|              |  |
|--------------|--|
| Main hazard  | Irritant   |
| Fire         | Non-flammable.   |
| Inhalation   | No hazard  |
| Skin contact | Prolonged or frequent contact may lead to defatting of skin. |
| Eye contact  | Symptoms: severe irritation of eye, burning                  |
| Ingestion    | Symptom: nausea, burning of throat.                          |

## 4. First Aid Measures

|              |   |
|--------------|---|
| Inhalation   | No hazard   |
| Skin contact | Rinse area well with water. 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. 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.     |

## 5. Fire Fighting Measures

|                     |  |
|---------------------|--|
| Extinguishing media | Product non-flammable. Use extinguishing agents suitable for surrounding fire. |
| Special hazards     | None known   |
| Protective clothing | Approved self contained breathing apparatus should be utilised or equivalent.  |

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### 6. Accidental Release Measures

|                           |  |
|---------------------------|--|
| Personal precaution       | Avoid prolonged contact with the product. Product may render surfaces slippery.  |
| Environmental precautions | When disposing large quantities, the alkaline nature of the product should be taken into consideration.  |
| Small spills              | Remove excess with absorbent material and flush residue with 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 alkaline detergents to minimise personal exposure. |
| Storage  | Store in a cool dry area. Keep containers sealed. Store in plastic containers.   |

### 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, <b>NEOPRENE</b> gloves (Technic 420 – supplier – MSA) should be utilised |
| Handle in a well ventilated area.  |

### 9. Physical and Chemical Properties

|                    |                               |
|--------------------|-------------------------------|
| Appearance         | Clear red liquid              |
| pH (concentrate)   | 13.0 – 14.0                   |
| Density            | 1.05 – 1.10 g/cm <sup>3</sup> |
| Non volatile       | 15.0 – 17.0 m/m               |
| Solubility (water) | 100%                          |

### 10. Stability and Reactivity

|                                  |  |
|----------------------------------|--|
| Stability                        | Stable under normal conditions.                |
| Incompatible materials           | Strong acids                                   |
| Hazardous decomposition products | Toxic fumes may be liberated on decomposition. |

### 11. Toxicological Information (based on sodium metasilicate)

|                       |   |
|-----------------------|---|
| Toxicity - Acute oral | LD <sub>50</sub> (oral – rat): 1153 mg/kg |
| Acute dermal          | 250 mg/24H SEV ( skn – hmn)               |
| Carcinogenicity       | No evidence of carcinogenic properties    |
| Mutagenicity          | No evidence of mutagenic effects          |
| Teratogenicity        | No evidence of teratogenic effects        |
| Reproductive hazards  | Not expected to impair fertility          |

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### 12. Ecological Information (based on surfactant blend)

|                                  |   |
|----------------------------------|---|
| Aquatic toxicity – rainbow trout | LC <sub>50</sub> (96 h): 30 mg/l                        |
| Aquatic toxicity – daphnia       | EC <sub>50</sub> (48 h): 13 mg/l                        |
| Aquatic toxicity - algae         | EC <sub>50</sub> (72 h): 1.6 mg/l                       |
| Biodegradability                 | Primary degradation (surfactant) > 90%                  |
| Bioaccumulation                  | Not likely – product is biodegradable and water soluble |

### 13. Disposal Considerations

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

### 14. Transport Information

|                         |      |
|-------------------------|------|
| Substance identity no   | B017 |
| 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              | R36/38         |
| Safety phrases            | S24/26         |

### 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   |
| <b>EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298</b>  |

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

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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<br>(dd/mm/yy) | Issued By            | Revision History  |           | Revision No. |
|-----------------------------|----------------------|-------------------|-----------|--------------|
|                             |                      | Description       | DCN No.   |              |
| 18/02/2011                  | Technical Manager    | New Issue         | MSDS B017 | 00           |
| 07/11/2016                  | Operations Directors | Section 14 review | MSDS B017 | 01           |
|                             |                      |                   |           |              |
|                             |                      |                   |           |              |

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