

# MATERIAL SAFETY DATA SHEET

Description: SAF CITRUS Revision Number: 01

Document Number: MSDS C008Y



## GENERAL PURPOSE CITRUS BASED CLEANER

### GENERAL

SAF-CITRUS is a fresh smelling blend of natural solvents used as a very effective grease cutting, surface wetting and emulsifying agent with a wide range of applications. The raw materials used in SAF-CITRUS are suitable for use in food processing areas.

### FORMULATION

SAF-CITRUS is a water-based product containing natural orange oil, a thickener, organic surfactants and coupling agents, which are completely biodegradable.

### PRODUCT DESCRIPTION

| TEST       | UNIT              | SPECIFICATION       |
|------------|-------------------|---------------------|
| Appearance |                   | Clear yellow liquid |
| Odour      |                   | Orange              |
| Density    | g/cm <sup>3</sup> | 1.00 – 1.02         |
| pH         |                   | 6.5 – 8.5           |
| Viscosity  | seconds           | 15 - 25             |

### PROPERTIES

- Highly concentrated.
- Economical to use - dilutions can vary from 1:10 to 1:8000.
- User friendly - completely biodegradable.
- Non toxic - safe for use in all applications including food processing equipment.
- Pleasant orange fragrance
- Efficient grease cutting agent for mineral oils, grease, animal fats, vegetable fats and oils.
- Can be used for dust settling applications.

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

Approved by: Doug Cutter  
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### APPLICATION

#### GENERAL CLEANING

- \* Walls, hard and vinyl covered floors, carpets, table tops etc - 1:100
- \* Tiled floors and walls in food processing areas, butcher's truck interiors, ablution areas including showers, basins etc - 1:50

#### HEAVY DUTY CLEANING

- \* Cleaning of mineral oil/grease in mechanical workshops, machine shops etc - 1:10, Apply by brush or spray, allow 10 minutes soak time and remove with water jet.
- \* Heavy animal fat contamination in abattoirs, butcher's floors and walls - 1:10, Scrub, mop and rinse with water pressure spray.

#### DUST CONTROL

For dust control in mining and industrial operations - 1:8000 (125ppm)

Dosage can be fed into the main water supply at surface level since the treated water is potable.

**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, EXPRESSED 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-CITRUS   | Product code: | C008 |
| Chemical Family | Non-ionic & anionic surfactants, orange oil and disinfectant |               |      |
| Chemical Name   | Formulated chemical  |               |      |
| Product Use     | General purpose cleaner                                      |               |      |
| UN Number       | 3082 (Miscellaneous substances)                              |               |      |

## 2. Composition

| CAS No.            | Hazardous Components        | Approximate % | Exposure Limit |
|--------------------|-----------------------------|---------------|----------------|
| N/A                | No hazardous ingredients    | N/A           | N/A            |
| EEC classification | Irritant (Xi), SAF - CITRUS |               |                |
| R Phrases          | R36/37/38, SAF – CITRUS     |               |                |

## 3. Hazards Identification

|              |  |
|--------------|--|
| Main hazard  | Irritant   |
| Fire         | Non-flammable.   |
| Inhalation   | No effect  |
| Skin contact | Prolonged or frequent contact may lead to defatting of skin. |
| Eye contact  | Irritation of eye, burning.                                  |
| Ingestion    | Nausea, vomiting   |

## 4. First Aid Measures

|              |   |
|--------------|---|
| Inhalation   | No effect   |
| 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. If irritation persists, seek medical attention. |
| Ingestion    | Rinse mouth with water, and allow patient as much water as possible. Seek medical attention.  |

## 5. Fire Fighting Measures

|   |   |
|---|---|
| Product 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. |

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### 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 water.  |
| Large spills              | Prevent the discharge of large amounts of concentrated product into sewerage, and watercourses. Small quantities can be run to waste with plenty of water. |

### 7. Handling & Storage

|          |  |
|----------|--|
| Handling | Normal handling procedure to minimise personal exposure to the product.    |
| 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 utilised.                       |
| Neoprene gloves (Technic 420-supplier MSA) should be utilised.   |
| Work in a well-ventilated area or 6300 type mask/6059 cartridge (3M – supplier) should be utilised where ventilation isn't adequate. |

### 9. Physical and Chemical Properties

|                    |  |
|--------------------|--|
| Appearance         | Clear yellow liquid, with orange odour |
| pH                 | 6.5 – 8.5                              |
| Density            | 1.00 – 1.02g/cm <sup>3</sup>           |
| Viscosity          | 15 – 25 seconds                        |
| Solubility (water) | 100 %                                  |

### 10. Stability and Reactivity

|                                  |   |
|----------------------------------|---|
| Stability                        | Stable under normal conditions.                             |
| Incompatible materials           | Strong acids and oxidants                                   |
| Hazardous decomposition products | When burning toxic fumes of carbon oxides will be liberated |

### 11. Toxicological Information (based on chlorocresol)

|          |                                     |
|----------|-------------------------------------|
| Toxicity | Acute oral : 1800 – 5000 mg/kg, rat |
|          | Acute dermal : > 2000 mg/kg, rabbit |

|   |  |
|---|--|
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|                     |  |
|---------------------|--|
| 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 chlorocresol)

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Aquatic toxicity – rainbow trout | 96 hr LC50 : 0.9 mg/l                |
| Aquatic toxicity – daphnia       | 48 hr LC50 : 2.29 mg/l               |
| Aquatic toxicity – algae         | 96 hr EC50 : >10 mg/l                |
| Biodegradability                 | The product is readily biodegradable |
| Bio accumulation                 | Not expected to bio accumulate       |

### 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.      |

|                         |                         |
|-------------------------|-------------------------|
| Marine Pollutant        | No                      |
| IMO/IMDG Classification | Class 9 Irritant liquid |
| IATA Classification     | Class 9 Irritant liquid |

### 14. Transport Information

|                        |                          |
|------------------------|--------------------------|
| UN No                  | 3082                     |
| Substance identity no  | C008                     |
| ADR/RID class          | Class 9: Irritant liquid |
| IMDG – packaging group | III                      |

### 15. Regulatory Information

|                           |               |
|---------------------------|---------------|
| EEC-hazard classification | Irritant (Xi) |
| Risk phrases              | R36/38        |
| Safety phrases            | S24/25        |

### 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  |

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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<br>(dd/mm/yy) | Issued By          | Revision History             |            | Revision No. |
|-----------------------------|--------------------|------------------------------|------------|--------------|
|                             |                    | Description                  | DCN No.    |              |
| 18/02/2011                  | Technical Manager  | New Issue                    | MSDS C008Y | 00           |
| 27/03/2015                  | Operations Manager | Removed hazardous ingredient | MSDS C008Y | 01           |
|                             |                    |                              |            |              |
|                             |                    |                              |            |              |
|                             |                    |                              |            |              |
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