

# MATERIAL SAFETY DATA SHEET

Description: SAF SILSET Revision Number: 02

Document Number: MSDS S030



## Company Details

|                |                                   |         |  |
|----------------|-----------------------------------|---------|--|
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## 1. Product Identification

|                 |  |                    |
|-----------------|--|--------------------|
| Trade Name      | SAF SILSET                                     | Product Code: S030 |
| Chemical Family | Sulphates                                      |                    |
| Chemical Name   | Formulated blend containing Aluminium Sulphate |                    |
| Product Use     | Water treatment                                |                    |

## 2. Composition

| CAS No.    | Hazardous Components | Approximate % | Limit                    |
|------------|----------------------|---------------|--------------------------|
| 10043-01-3 | Aluminium sulphate   | 33%           | Oral-mus LD50:6207 mg/kg |
| 7732-18-5  | Water                | 67%           | n/a                      |

## 3. Hazards Identification

|              |  |
|--------------|--|
| Main hazard  | HARMFUL IF SWALLOWED   |
| Fire         | n/a  |
| Inhalation   | Will cause irritation  |
| Skin contact | Will cause mild irritation. Symptoms include redness, itching, and pain.   |
| Eye contact  | Causes irritation, redness, and pain   |
| Ingestion    | Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhoea. It presents little toxicity unless large amounts are ingested, in which case, vomiting and diarrhoea are likely. |

## 4. First Aid Measures

|              |  |
|--------------|--|
| Inhalation   | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention  |
| Skin contact | Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| Eye contact  | Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.  |
| Ingestion    | Do not induce vomiting, drink milk or water and immediately seek medical attention.  |

## 5. Fire Fighting Measures

|                     |   |
|---------------------|---|
| Fire                | Not considered to be a fire hazard.   |
| Extinguishing media | n/a   |
| Special hazard      | If evaporated to dryness and exposed to temperatures greater than 1400°F, aluminum sulfate will decompose generating toxic and corrosive gas. |
| Protective clothing | n/a   |

Prepared by: Sabelo Dladla

Reviewed by: Doug Cutter

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## 6. Accidental Release Measures

|                           |   |
|---------------------------|---|
| Personal precautions      | Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment.  |
| Environmental precautions | Ventilate area of leak or spill. Wear appropriate personal protective equipment. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! |
| Small spills              | If directed to an industrial sewer, wash down with large volumes of water. Spills can be neutralized and absorbed with soda ash or lime, but neutralization will release Carbon dioxide, which can generate a breathing hazard.   |
| Large spills              | Neutralize with SAF EA Neutraliser and place in suitable container for reclamation or disposal.   |

## 7. Handling & Storage

|          |  |
|----------|--|
| Handling | Handle sealed containers to minimise exposure. |
| Storage  | Store in a cool, dry, ventilated area          |

## 8. Exposure Controls/Personal Protection

|                                       |  |
|---------------------------------------|--|
| Airborne Exposure Limits              | None established.  |
| Ventilation System                    | Under normal conditions, liquid alum will not generate mists or vapors. No special Ventilation is recommended.   |
| Personal Respirators (NIOSH Approved) | Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient Oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or Storage tanks), wear an SCBA. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic Environmental. |
| Skin Protection                       | Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or Repeated skin contact. Wear protective chemical safety goggles, per OSHA eye- and face protection regulations (29 CFR 1910.133).   |
| Eye Protection                        | Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.  |

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## 9. Physical and Chemical Properties

|                    |                           |
|--------------------|---------------------------|
| Appearance         | Clear yellow/brown liquid |
| pH (1% soln)       | 3.5                       |
| Density            |                           |
| Solubility (water) | Complete (100%)           |

## 10. Stability and Reactivity

|                                  |  |
|----------------------------------|--|
| Stability                        | Stable under ordinary conditions of use and storage  |
| Conditions to avoid              | Heat, incompatibles  |
| Hazardous decomposition products | May emit ammonia, oxides of sulphur, oxides of nitrogen, and oxides of carbon.   |
| Incompatibilities                | Strong oxidizing agents, Sodium hypochlorite, potassium plus ammonium nitrate, potassium chlorate, potassium nitrite, and sodium-potassium powder plus ammonium nitrate, and other strong oxidizers. |

## 11. Toxicological Information

|                     |                           |
|---------------------|---------------------------|
| Toxicity            | Oral rat LD50: 2840 mg/kg |
| Carcinogenicity     | No                        |
| Mutagenicity        | n/a                       |
| Teratogenicity      | n/a                       |
| Reproductive hazard | n/a                       |

## 12. Ecological Information

|                  |                       |
|------------------|-----------------------|
| Biodegradability | No information found. |
| Bio accumulation | No information found. |

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

|                         |  |
|-------------------------|--|
| UN Number               | 3264 (corrosive liquid, acidic, inorganic) |
| Substance identity no   | S030                                       |
| ADR/RID class           | Class 8                                    |
| IMDG – packaging group  | III  |
| Marine Pollutant        | n/a  |
| IMO/IMDG Classification | Class 8                                    |
| IATA Classification     | Class 8                                    |

## 15. Regulatory Information

|                           |   |
|---------------------------|---|
| EEC-hazard classification | n/a   |
| Risk phrases              | R36/37/38 irritating to eyes, respiratory system and skin |
| Safety phrases            | S26,28,37,39  |

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## 16. Other Information

Reference: 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 regarding the precautionary handling, 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 and/or its composition.

### 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 S030 | 00           |
| 20/05/2013                  | Technical Manager   | Document review and change of Company logo. | MSDS S030 | 01           |
| 23/03/2017                  | Operations Director | Document review                             | MSDS S030 | 02           |
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|                                   |                                     |
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