

# MATERIAL SAFETY DATA SHEET

MANUFACTURER: ORGANIC FERTILIZER MANUFACTURERS BOTSWANA



| Superphosphate      |                  |                             |
|---------------------|------------------|-----------------------------|
| SOP No: SUP10012018 | REVISION No: 001 | EFFECTIVE DATE<br>10/1/2018 |

## Contact Details

|                        |   |
|------------------------|---|
| Supplier's Name:       | Organic Fertilizer Manufacturers Botswana |
| Address:               | P.O. Box AD702 ADD<br>Kgale<br>Gaborone   |
| Emergency Telephone:   | (267) 76065264                            |
| Information Telephone: | (267) 76065264                            |
| Date prepared:         | 10/1/2018                                 |

## SECTION: 1 CHEMICAL IDENTIFICATION

|                     |  |
|---------------------|--|
| Product:            | Superphosphate 19.6, Superphosphate 10.5, Superphosphate 8.7, Superphosphate 8.3, Double Superphosphate. |
| Active Ingredients: | A preparation containing 8.3 to 20% P (Mainly as mono calcium phosphate, balance as gypsum)              |
| Chemical Class:     | Fertilizer   |

## SECTION: 2 INGREDIENTS / IDENTITY INFORMATION

|                        |   |
|------------------------|---|
| Hazardous Ingredients: | Hazardous in case of contact with skin and eyes, inhalation and/ or ingestion |
| Components:            | $\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$                |

## SECTION: 3 PHYSICAL / CHEMICAL CHARACTERISTICS

|                       |  |
|-----------------------|--|
| Physical State:       | Dry Granules                           |
| Melting Point:        | N/A                                    |
| Vapour Pressure:      | N/A                                    |
| Specific Gravity:     | N/A                                    |
| Percent Volatile:     | N/A                                    |
| Evaporation Rate:     | N/A                                    |
| Solubility in Water:  | Soluble in water                       |
| Appearance and Odour: | White to light grey granules, no odour |

N/A = Not Applicable

N/D = Not Determined

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## SECTION: 4 FIRE AND EXPLOSION HAZARD DATA

|                                   |  |
|-----------------------------------|--|
| Flash Point:                      | N/A  |
| Flammable Limits:                 | Contact with combustible material may cause fire. Explosive when mixed with combustible material |
| Extinguishing Media:              | Carbon Dioxide, Dry Chemical, Water  |
| Special Fire Fighting Procedures: | Use extinguishing media appropriate for surrounding fire, use self-contained breathing units     |

## SECTION: 5 REACTIVITY DATA

|                           |                                |
|---------------------------|--------------------------------|
| Stability:                | Stable under normal conditions |
| Conditions of Reactivity: | N/A                            |
| Incompatibility:          | N/A                            |

N/A = Not Applicable

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## SECTION: 6 HEALTH HAZARD DATA

|                          |  |
|--------------------------|--|
| Routes of exposure:      | Eye, skin, inhalation, ingestion   |
| Eyes:                    | May cause irritation   |
| Skin:                    | May cause dryness or irritation  |
| Inhalation:              | Nuisance dust, may cause irritation of nose, throat and respiratory tract  |
| Ingestion:               | Swallowing large amounts may cause vomiting and cramps   |
| Health hazards:          | No known side effects have been associated with repeated or prolonged exposure   |
| Carcinogenicity          | N/A  |
| Emergency and first Aid: | <b>Eyes:</b> Flush with cool water for 15 minutes. Obtain medical attention if condition persists. Irritating, but does not injure eye tissue.<br><b>Skin:</b> Skin may become dry from dust. Wash thoroughly with soap after handling. Low order of toxicity.<br><b>Inhalation:</b> May cause irritation to nasal passages, trachea and respiratory system. Move to fresh air area.<br><b>Ingestion:</b> Do not induce vomiting. If ingested, seek physician as soon as possible. |

## SECTION: 7 PRECAUTIONS FOR SAFE HANDLING AND USE

|  |   |
|--|---|
| If material is released or spilled:              | Spills may be easily cleaned up by sweeping up as much solid as possible and washing remaining spill with copious amounts of water. |
| Waste and Disposal Method:                       | Dispose of in accordance with local, provincial and national regulations.   |
| Precautions to be taken in Handling and Storing: | Store in cool, dry place away from Children, domestic animals, food and feed products.  |
| Other precautions:                               | Keep away from combustible material.  |

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N/D = Not Determined

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## SECTION: 8 CONTROL MEASURES

|  |  |
|--|--|
| Respiratory Protection:                    | Use dust masks   |
| Ventilation:                               | Normal   |
| Protective Gloves:                         | Protective gloves (Impervious)   |
| Eye Protection:                            | Protective eye-wear necessary if high dust concentration is generated. |
| Other Protective Clothing<br>Or Equipment: | Full length chemical resistant overalls / apron,<br>dust mask          |
| Work/Hygienic Practices:                   | Normal   |

## SECTION: 9 ECOLOGICAL INFORMATION

|   |  |
|---|--|
| Users should ensure that they comply with local, provincial and national environment legislation. |  |
| Environmental affects:  | Toxic to aquatic organisms in low concentrations |

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