1. Basic Information

Company name: Humefert Manufacturing (Pty) Ltd
Address: PO Box 12477, Stellenbosch, 7613, SOUTH AFRICA
Contact numbers: +(27) 21-8867536
Product Name: BlackGold: Compound Fertiliser
Product type: Compound Granules
Odor: Neutral
Derived from: Plant nutrients
EPA Number: Not regulated

Emergency Telephone: +(27) 21-8801758; CHEMTEC (24-Hours emergency number); (800) 4249300; EPA National Response Center; (800) 4248802.

2. Hazards Identification

Hazard Classification: Irritant
Hazardous Ingredient CAS # Limits: None

Not known to be hazardous to man or environment

Ingredients

<table>
<thead>
<tr>
<th>Chemical Entity</th>
<th>CAS No</th>
<th>Worksafe Exposure Limits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA mg/m³</td>
<td>STEL mg/m³</td>
<td></td>
</tr>
<tr>
<td>Ferrous sulphate</td>
<td>7720-78-7</td>
<td>not set</td>
<td>not set</td>
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<tr>
<td>Copper sulphate</td>
<td>7758-98-7</td>
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<tr>
<td>Zinc sulphate</td>
<td>7733-02-0</td>
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<tr>
<td>Manganese sulphate</td>
<td>7785-87-7</td>
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<tr>
<td>Boric acid</td>
<td>10043-35-3</td>
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<tr>
<td>Sodium molybdate</td>
<td>7631-95-0</td>
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<tr>
<td>Calcium chloride</td>
<td>10043-52-4</td>
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<tr>
<td>Potassium chloride</td>
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<tr>
<td>Magnesium chloride</td>
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<tr>
<td>Urea</td>
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<td>Mono ammonium phosphate</td>
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<tr>
<td>Magnesium sulphate</td>
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<tr>
<td>Potassium nitrate</td>
<td>7757-79-1</td>
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<td>not set</td>
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</tbody>
</table>
3. **Emergency/Hazards overview**

**WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED**

Health Rating: 1 - Slight  
Flammability Rating: 0 - None  
Reactivity Rating: 1 - Slight  
Contact Rating: 2 - Moderate  
Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES  
Storage Color Code: Green (General Storage)

4. **Potential Health Effects**

**Inhalation:** Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.  
**Ingestion:** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.  
**Skin Contact:** Causes irritation to skin. Symptoms include redness, itching, and pain.  
**Eye Contact:** Causes irritation, redness, and pain.  
**Chronic Exposure:** No information found.  
**Aggravation of Pre-existing Conditions:** No information found.

5. **First Aid Measures**

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  
**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. 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 upper and lower eyelids occasionally. Get medical attention

6. **Physical and Chemical data**

Appearance: Greyish crystals or granules.  
Odor: Faint acid odor.  
% Volatiles by volume @ 21C (70F): 0  
Boiling Point: No information found.  
Melting Point: 190C (374F)  
Vapor Density (Air=1): No information found.  
Vapor Pressure (mm Hg): No information found.  
Evaporation Rate (BuAc=1): No information found.

7. **Stability and Reactivity**

**Stability:** Stable  
**Conditions to avoid:** N/A  
**Incompatibility:** Contact with alkaline materials.
8. **Fire Fighting Measures**

- **Fire:** It is not considered to be a fire hazard. Fire may produce toxic fumes.
- **Explosion:** Not considered to be an explosion hazard.
- **Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.
- **Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

9. **Accidental Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 11. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

10. **Handling and Storage**

**Precautions to be taken:**
Store in original container in a dry place. Keep from heating or freezing. Keep out of reach of children.

**Other precautions:** None.

11. **Exposure controls/personal protection**

- **Airborne Exposure Limits:** None established.
- **Ventilation System:** In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
- **Personal Respirators (NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
- **Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
- **Eye Protection:** Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

12. **Stability and Reactivity**

- **Stability:** Is stable under ordinary conditions of use and storage.
- **Hazardous Decomposition Products:** Burning may produce ammonia and oxides of phosphorus.
- **Hazardous Polymerization:** Will not occur.
- **Conditions to Avoid:** Incompatibles.
13. **Ecological Information**

Environmental Fate: No information found.
Environmental Toxicity: No information found

14. **Transportation**

D.O.T. information: Not D.O.T. Regulated
Other shipping description: Follow local transportation regulations

15. **Regulatory Information**

CERCLA: None
SARA Title III, Section 313 toxic chemical: None
PROPOSITION 65 (CA): None

16. **Other Information**

The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. Humefert Manufacturing shall not be held liable for any damage resulting from contact with the above product.