



# BlackGold™

WATER SOLUBLE FERTILISERS

## MATERIAL SAFETY DATA SHEET

### 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: WATER SOLUBLE FERTILISERS  
**Product type:** Water soluble powders  
**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

Chemical Entity	CAS No	Worksafe Exposure Limits	
		TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>
Ferrous sulphate	7720-78-7	not set	not set
Copper sulphate	7758-98-7	not set	not set
Zinc sulphate	7733-02-0	not set	not set
Manganese sulphate	7785-87-7	not set	not set
Boric acid	10043-35-3	not set	not set
Sodium molybdate	7631-95-0	not set	not set
Calcium chloride	10043-52-4	not set	not set
Potassium chloride	7447-40-7	not set	not set
Magnesium chloride	7791-18-6	not set	not set
Urea	57-13-6	not set	not set
Mono ammonium phosphate	7722-76-1	not set	not set
Magnesium sulphate	7487-88-9	not set	not set
Potassium nitrate	7757-79-1	not set	not set

### **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: Brilliant white 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.

**Haz. decomposition products:** None known  
**Haz. polymerization:** Will not occur

## **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.