



BlackGold™

LIQUID 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: Liquid Fertiliser
Product type: Liquid fertilisers
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 TWA mg/m ³	Exposure Limits STEL mg/m ³
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.