

CBG Biotech, Ltd.  
26400 Broadway Avenue, Unit A  
Oakwood Village, Ohio 44146 USA  
+1-440-786-7667

For Chemical Spills, Fires, or Exposure:  
Call CHEMTREC (day or night)  
+1-800-424-9300 (in USA)  
+1-703-527-3887 (International)

## MATERIAL SAFETY DATA SHEET

### Section 1. Product Identification:

Product name: Buffered Zinc Concentrate                      CAS number: None: A mixture  
Code number: CHEM 010    SARA 313: No

### Section 2. Composition/Information on Ingredients:

Product: Concentrated solution of sodium citrate and zinc sulfate in water such that a 1 to 40 dilution with a 10 % formalin solution will provide a final working pH of 5.6 to 5.9.  
Ingredients: Citric acid (CAS #77-92-9) and zinc sulfate (CAS #7733-02-0) in water; neither compound listed on SARA 313.

### Section 3. Hazards Identification:

NFPA: 1,0,0 (Health, Flammability, Reactivity)  
HMIS: 1,0,0 (Health, Flammability, Reactivity)  
See Section 11 for additional information

### Section 4. First Aid Measures:

Eye Exposure: Flush eyes with water for 3-15 minutes; separate eyelids to assure adequate flushing; call a physician.  
Skin exposure: Flush with water.  
Oral exposure: Wash mouth with water provided that person is conscious; call a physician.  
Inhalation: Remove to fresh air; if breathing becomes difficult, call a physician.

### Section 5. Fire Fighting Measures:

Flammability: Not combustible.  
Extinguishing media: Compatible with water spray, foam, dry chemical powder, or carbon dioxide.  
Protective equipment: Wear protective clothing to prevent contact with eyes and skin.  
Specific hazards: Can emit toxic fumes under fire conditions.

### Section 6. Accidental Release Measures:

Precautions: Avoid contact with eyes and skin, and avoid inhalation of aerosols.  
Clean up: Absorb with an inert adsorbent; place in closed containers; wash down spill site with water; dispose of according to applicable Federal, State and Local Regulations.

### Section 7. Handling and Storage:

Handling: Avoid contact with eyes, skin and clothing, and avoid inhalation of aerosols.  
Storage: Keep tightly closed and store at room temperature.

### Section 8. Exposure Controls and Personal Protection:

Protective Equipment: Protective gloves and safety goggles.  
Hygiene Measures: Wash thoroughly after handling.  
Engineering Controls: Safety shower, eye bath and ventilation exhaust

Section 9. Physical and Chemical Properties:

Appearance: Clear liquid.  
Boiling point: 110 °C (760 mm Hg)  
Specific gravity: 1.6 at 20 °C (H<sub>2</sub>O = 1.0)

Section 10. Stability and Reactivity:

Stability: Stable.  
Materials to avoid: None indicated.  
Hazardous polymerization: Does not occur.  
Hazardous decomposition products: None.

Section 11. Toxicological Information:

Exposure: May irritate eyes, nasal membranes, mucous membranes and upper respiratory tract. If ingested, might be harmful.  
Signs and symptoms: Not available to the best of our knowledge.

Section 12. Ecological Information:

Data is not yet available.

Section 13. Disposal Considerations:

This product does not have an EPA Waste Number, nor is it a Listed Waste. However, all disposal procedures should follow applicable Federal, State and Local Regulations.

Section 14. Transport Information:

DOT: Proper shipping name: None  
Hazard classification: Considered to be non-hazardous for transport.  
IATA: Hazard classification: Considered to be non-hazardous for air transport.

Section 15. Regulatory Information:

United States: SARA listed: No  
Canada: WHMIS: Classified in accordance with the CPR, and the MSDS contains all of the information required by the CPR.

Section 16. Other Information:

Disclaimer: For analytical and laboratory use only. Not for drug, or other uses.  
Warranty: The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge, and is applicable to the product only with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CBG Biotech, Ltd. shall not be liable for any damage resulting from handling, or from contact with the product. See reverse sides of invoice, for additional terms and conditions of sale.