

**MATERIAL SAFETY DATA TECHNICAL INFORMATION****SECTION 1—PRODUCT IDENTIFICATION AND USE****PRODUCT IDENTIFIER:** F-212 G with 12% Copper Fertilizer**PRODUCT IDENTIFICATION NUMBER (PIN):** N.Ap.**PRODUCT USE:** FERTILIZER MICRONUTRIENT FOR BLENDING FOR SOIL APPLICATION.**MANUFACTURER'S NAME:** FRIT INDUSTRIES, INC.**SUPPLIER'S NAME:** SAME**STREET ADDRESS:** JODIE PARKER ROAD**STREET ADDRESS:** SAME**CITY:** OZARK**PROVINCE:** ALABAMA**CITY:** SAME**PROVINCE:** SAME**POSTAL CODE:** USA 36360**POSTAL CODE:** SAME**EMERGENCY PHONE NO:** 334/774-2515**EMERGENCY PHONE NO:** SAME**SECTION 2—HAZARDOUS INGREDIENTS**

<b>HAZARDOUS INGREDIENT</b>	<b>%</b>	<b>CAS NUMBER</b>	<b>LD<sub>50</sub> OF INGREDIENT (SPECIFY SPECIES &amp; ROUTE)</b>	<b>LC<sub>50</sub> OF INGREDIENT (SPECIFY SPECIES)</b>
Copper Oxide	25-30	1317391	470 mg/kg ORL-RAT	N.Av.
Copper Sulfate	5-10	7758998	300 mg/kg ORL-RAT	N.Av.
Zinc Oxide	15-20	1314132	7950 mg/kg ORL-MUS	N.Av.
Zinc Sulfate	5-10	7733020	2949 mg/kg ORL-RAT	N.Av.

**SECTION 3—PHYSICAL DATA****PHYSICAL STATE:** Solid granular**ODOUR AND APPEARANCE:** Slight metallic odor; brown granule**ODOUR THRESHOLD (ppm):** N.Ap.**VAPOUR PRESSURE (mm Hg):** N.Ap.**VAPOUR DENSITY (AIR=1):** N.Ap.**EVAPORATION RATE:** N.Ap.**BOILING POINT (C):** N.Ap.**FREEZING POINT (C):** N.Av.**PH:** N.Av.**SPECIFIC GRAVITY:** N.Av.**COEFF.WATER/OIL DIST.:**N.Ap.**SECTION 4—FIRE AND EXPLOSION DATA****FLAMMABILITY:** YES  NO**IF YES, UNDER****WHICH CONDITIONS:**

(NOTE: In case of fire, water should be impounded to avoid washing into waterways.)

**MEANS OF EXTINGUISHMENT:** N.Ap.**FLASHPOINT (C) AND METHOD:** N.Ap.**UPPER FLAMMABLE LIMIT (% BY VOLUME):** N.Ap.**LOWER FLAMMABLE LIMIT (% BY VOLUME):** N.Ap.**AUTOIGNITION TEMPERATURE (C):** N.Ap.**HAZARDOUS COMBUSTION PRODUCTS:** Metal fumes, oxides of sulfur**EXPLOSION DATA:** N.Ap.**SENSITIVITY TO IMPACT:** N.Ap.**SENSITIVITY TO STATIC DISCHARGE:** N.Ap.

N.Ap. = not applicable

N.Av. = not available

**Fertilizer**

**SECTION 5—REACTIVITY DATA**

**CHEMICAL STABILITY:** IF NO, UNDER WHICH CONDITIONS?  
 YES  NO

**INCOMPATIBILITY WITH OTHER SUBSTANCES:** IF SO, WHICH ONES?  
 YES  NO

**REACTIVITY, AND UNDER WHAT CONDITIONS?** None known

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

**SECTION 6—TOXICOLOGICAL PROPERTIES**

**ROUTE OF ENTRY:**  
 SKIN CONTACT  SKIN ABSORPTION  EYE CONTACT  INHALATION  INGESTION

**EFFECTS OF ACUTE EXPOSURE TO PRODUCT:** Metal fume fever. Can cause nausea and vomiting, irritation of skin, eyes, and respiratory system.

**EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:** Can cause damage to respiratory, central nervous, urinary, and blood systems. Most pronounced in individuals with Wilson's Disease.

**EXPOSURE LIMITS:** CuO = 1 mg Cu/m<sup>3</sup>; ZnO = 5 mg Zn/m<sup>3</sup>  
 Source: ACGIH, TWA CuSO<sub>4</sub> = 1 mg Cu/m<sup>3</sup> ZnSO<sub>4</sub> = 5 mg Zn/m<sup>3</sup>

**IRRITANCY OF PRODUCT:** Skin - rash; eyes - irritation; respiratory – coughing.

**SENSITIZATION TO PRODUCT:** No evidence

**CARCINOGENICITY:** No evidence.

**TERATOGENICITY:** No evidence.

**REPRODUCTIVE TOXICITY:** No evidence.

**MUTAGENICITY:** No evidence.

**SYNERGISTIC PRODUCTS:** No evidence.

**SECTION 7—PREVENTATIVE MEASURES**

**PERSONAL PROTECTIVE EQUIPMENT:**

**GLOVES (SPECIFY):** Heavy duty, leather gloves.

**RESPIRATOR (SPECIFY):** Approved NIOSH 3M8210 or better.

**EYE (SPECIFY):** Non-vented goggles.

**FOOTWEAR (SPECIFY):** Shoes.

**CLOTHING (SPECIFY):** Coveralls.

**OTHER (SPECIFY):** N. Ap.

**ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS):** Adequate ventilation to keep dust below exposure limits.

**LEAK AND SPILL PROCEDURE:** Avoid generating dust. Shovel or sweep up and reuse.

**WASTE DISPOSAL:** Empty containers and materials used in cleanup spills should be disposed of in accordance with Canadian laws.

**HANDLING PROCEDURES AND EQUIPMENT:** Avoid generating dust. Do not inhale dust. Avoid contact with skin and eyes. Wear protective equipment. Wash thoroughly after handling.

**STORAGE REQUIREMENTS:** Keep in dry area. Avoid spillage of bulk material or tearing of bags.

**SPECIAL SHIPPING INFORMATION:** N. Ap.

**SECTION 8—FIRST AID MEASURES**

**SPECIFIC MEASURES:** Inhalation – Remove to fresh air; seek medical attention.

Skin – Flush with soap and water. Contact physician if irritation develops.

Eyes – Flush with water for 15 minutes. Contact physician if irritation develops.

Ingestion – Contact physician immediately.

**SECTION 9—PREPARATION DATE OF MSDS**

**PREPARED BY:** Frank M. Dabney

**PHONE NUMBER:** 334/774-2515

**DATE:** June 30, 2011