

MATERIAL SAFETY DATA SHEET

Manufacturer's Name: **Crescent Bronze Powder Co., Inc.**
 3400 N. Avondale Ave.
 Chicago, IL 60618-5432
800-445-6810 (Information)
800-535-5053 (Transportation Emergencies Only)

SECTION I: PRODUCT IDENTIFICATION

Product Name: Cres-Lite Metallic Pigments. (Gold bronze and/or copper pigments or powders)
Product Number: Palegold-17, 24, 113A, 109, 201, 251, 251A, 271, 309P, 325P, 351, 400P, 595, 6500 P, 8000, 0-566-16
Richgold-14, 40, 52, 113, 202, 252, 309R, 325R, 352, 400R, 6500R
Rich Palegold-11, 22, 59, 77, 177, 254, 325RP, 354, 400RP
Deep/Greengolds-18, 26, 31, 34, 35, 117, 118, 255, 255A, 256, 325D, 400D, 813, 813-21
Copper-27, 64, 65, 104, 130, 205, 215, 224, 253, 325C, 353, 400C, 0-65
Vault Colors-V798-24, V798-25, V798-29, EV-901, EV-902
Miscellaneous Colors- 5, 6, 8, 15, 16, 19
Custom Colors: 814-7, 941.12, 969-19, J-70, J-143, J-145, J-147, J-270, J-70S, J-272, J-272S, J-273S, 01-0307-1, 0-683-3, 0-817-7, 0-908-4, 0-908-6, 0-908-9, 0-873-3C, 01-0907-2 Palegold, 01-0907-1 Richgold
Naz Dar-0-10, 90, 91, 93, 96, 98, 99, 5210, 9030
M.A. Hanna-6510-22 Copper, 0-6510-21

SECTION II: HAZARDOUS INGREDIENTS

| Component | CAS# | % by wt. | Exposure Limits (mg/M3) | | |
|--------------|-----------|----------|-------------------------|------|------|
| | | | TLV/TWA | PEL | STEL |
| Copper (*) | 7440-50-8 | 70-98 | 1 | 1 | 2 |
| Zinc (*) | 7440-66-6 | 0-29 | 5 | N.E. | N.E. |
| Stearic Acid | 57-11-4 | .5-2 | N.E. | N.E. | N.E. |

* The products listed in Section I contain these chemicals which are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (SARA Title III) and 40 CFR 372. Copper and Zinc also appear on the TSCA inventory list and have been assigned numbers A546-0888 & B823-4379, respectively.

SECTION III: PHYSICAL DATA

Boiling Range: Copper 4,653°F; Zinc 1, 665°F

Evaporation Rate: Not applicable

% Volatile by wt: None

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Specific Gravity: Copper 8.92; Zinc 7.14 (Solid)

Appearance and Odor: Metallic looking powder with little odor

SECTION IV: FIRE & EXPLOSION INFORMATION

Flash Point: Not applicable.

Flammable Limits in Air (by vol.): Lower- Not Established

Upper- Not Established

D.O.T. Flammability Classification:

Metal Powders, Flammable N.O.S. (contains copper and/or zinc), UN3089, Class 4.1, PG III governs the following product #'s: 17, 24, 34, 35, 40, 59, 64, 0-65, 77, 90, 96, 98, 117, 118, 177, 224, 309P, 813, 2775, 813-21, 0-817-7, 0-908-4, 0-908-9

Metal Powders, Flammable N.O.S. (contains copper and/or zinc), UN3089, Class 4.1, PG II governs the following product #'s: 15, 16, 91, 93, 99, 5091, 5210, all 325 & 400 series, 01-0907-1

Non-Hazardous Metallic Pigments: 5, 6, 8, 11, 14, 18, 19, 22, 26, 27, 31, 52, 104, 109, 113, 130, 201, 202, 205, 251, 252, 253, 254, 255, 256, 271, 351, 352, 354, 941-12, 8000, V798-24, V798-25, V798-29, 0-683-3, 0-873-3C, 01-0307-1, 0-10, 01-0907-2 Palgeold

Extinguishing Media: NFPA class D Dry Chemical equipped with a low velocity nozzle, Sand or another inert material may be used to smother burning pigment. Water may be used to cool closed containers if exposed to extreme heat.

Firefighting Procedures: DO NOT use fire extinguishers containing halogenated hydrocarbons to extinguish burning material. Since this powder contains zinc, it may react with these agents to liberate hydrogen gas, which can spread the fire. Also, burning brass powder may react violently with these types of extinguishing agents. Firefighters should wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: See Above.

SECTION V: HEALTH HAZARD DATA

Primary routes of entry: Skin & eye contact and breathing of airborne particulate.

Health Risks:

Eyes & Skin: Copper & copper/zinc alloy dusts are eye and mucous membrane irritants and skin sensitizers. Acute exposure may cause redness of the eyes and dermatitis.

Inhalation: Prolonged exposure to airborne particulate may cause acute irritation of the nose and trachea resulting in a metallic taste or nasal ulceration. If exposed to extremely high temperatures, zinc metal fumes can result in symptoms known as "metal fume fever".

Ingestion: Ingestion of copper compounds may cause vomiting and collapse. Acute poisoning is characterized by hemolysis, jaundice, anuria, hypertension and convulsions.

First Aid:

Eyes: Flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention. Avoid wearing of contact lenses.

Skin: Remove contaminated clothing and wash affected area with soap and warm water. If irritation persists, seek medical attention.

Inhalation: If breathing becomes difficult, leave area immediately and move to an area of fresh air. If breathing has stopped, begin artificial respiration procedures at once. Seek medical attention.

Ingestion: If swallowed, drink one or two glasses of water. DO NOT induce vomiting. Seek medical attention immediately.

Medical Conditions Prone to Aggravation by Exposure: Persons with pre-existing chronic respiratory problems and/or impaired pulmonary function could suffer increased discomfort. Additionally, persons with obstructive airway diseases, pre-existing kidney, liver, skin or blood disorders, or those having been diagnosed with Wilson's disease, may find their condition further aggravated by exposure to this product.

Carcinogenic Status: Not listed by NTP, IARC, or OSHA.

SECTION VI: REACTIVITY DATA

Stability: Product is stable.

Incompatibility: Strong alkalis, chlorates, bromates, mineral acids and other strong oxidizing agents.

Hazardous Decomposition Products: Decomposition may yield hydrogen and noxious copper compounds.

Conditions to Avoid: See above.

Hazardous Polymerization: Will not occur.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Small Spills: Small spills may be swept gently into a hazardous waste container. Avoid generating dust clouds.

Large Spills: Large spills should be handled in a similar manner. Avoid run-off into sewers, drains or other open bodies of water. Notify authorities if this has occurred.

Waste Disposal Methods: Dispose of in accordance with local, state and federal regulations.

Handling & Storage: Store product in an area away from extreme temperature conditions. Keep containers closed after use.

Other Precautions: KEEP AWAY FROM CHILDREN.

SECTION VIII: PROTECTION & CONTROL MEASURES

Respiratory Protection: Wear an appropriate (NIOSH approved) respirator during application if air monitoring demonstrates that airborne particulate exceeds recommended threshold limits.

Eye and Skin protection: Splash goggles and protective gloves are recommended to reduce the risk of eye and/or skin contact.

Ventilation: Ventilation sufficient in volume and pattern should be provided to keep air quality within approved OSHA levels.

Other Protective Clothing & Equipment: Eye wash and safety shower are recommended if using this product in large concentrations. Always wash hands thoroughly when finished using this product.

SECTION IX: OTHER IMPORTANT INFORMATION

This information must be made available upon request and may be reproduced without permission.

Please read precautions and warning statements on product label.

The Hazardous Communication Identification System (HMIS) has been included for information purposes only. The recommendations represents here are based on criteria supplied by the developer of the system (National Paint & Coatings Assoc.- NPCA), suppliers of Crescent Bronze and our own interpretation of the data provided and should be used in conjunction with the users own evaluation.

| | |
|----------------|---|
| HEALTH: | 2 |
| FLAMMABILITY: | 1 |
| REACTIVITY: | 1 |
| PERS. PROTECT: | E |

DISCLAIMER OF LIABILITY

The statements contained herein are made only for the purpose of compliance with various regulatory requirements. While believed to be accurate, they do not in any way constitute an express or implied warranty of fitness for a particular purpose, merchantability, or any representation or guarantee whatsoever by Crescent Bronze Powder Company/Color FX. Users should make their own determination as to the suitability of this product for their particular use or purpose.