

# MATERIAL SAFETY DATA SHEET

## BRASS POWDER

C.A.S. Numbers: Cu-744-50-8 Zn-7440-66-6 Al-7429-90-5

### SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product/Material: MIPBR\*F  
Distributor: Sokolowski Studios LLC  
Address: 111 Mid Valley Rd., Lake Ariel, PA 18436  
Telephone: (570) 937-9400  
Emergency Contact: **Chemtrec** (800) 424-9300  
(703) 527-3887 (Outside the USA)

To be used "ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING  
A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT INVOLVING CHEMICALS".

Material Name: Brass powder

### SECTION II – INGREDIENTS AND EXPOSURE LIMITS

| <u>Ingredient</u> | <u>CAS Number</u> | <u>%</u> | <u>ACGIH TLV</u> |             | <u>OSHA PEL</u> |             |
|-------------------|-------------------|----------|------------------|-------------|-----------------|-------------|
|                   |                   |          | <u>TWA</u>       | <u>STEL</u> | <u>TWA</u>      | <u>STEL</u> |
| COPPER            | 7440-50-8         | 70-95    | 1                | -           | 1               | -           |
| ZINC              | 7440-66-6         | 5-30     | 10*              | -           | 10              | 5*          |
| ALUMINUM          | 7429-90-5         | <2       | 10               | -           | 15              | 5           |

\* As Zinc oxide dust.

NOTE: "Total dust" and "Respirable fraction" OSHA PEL values are listed for Zinc and Aluminum.

### SECTION III – PHYSICAL DATA

Appearance and Odor: Yellowish to tan color, odorless

|                               | <u>Cu</u>          | <u>Zn</u>         | <u>Al</u>          |
|-------------------------------|--------------------|-------------------|--------------------|
| <b>Boiling Point:</b>         | 4653° F<br>2567° C | 1665° F<br>907° C | 4766° F<br>2630° C |
| <b>Evaporation Rate:</b>      | N/A                | N/A               | N/A                |
| <b>Vapor Pressure:</b>        | N/A                | N/A               | N/A                |
| <b>Specific Gravity:</b>      | 8.92               | 7.14              | 2.17               |
| <b>Water Solubility (%):</b>  | INSOLUBLE          | INSOLUBLE         | INSOLUBLE          |
| <b>Melting Point:</b>         | 1982° F<br>1083° C | 787° F<br>419° C  | 1220° F<br>660° C  |
| <b>Vapor Density (air=1):</b> | N/A                | N/A               | N/A                |
| <b>% Volatile by Volume:</b>  | N/A                | N/A               | N/A                |
| <b>Molecular Weight:</b>      | 63.5               | 65.37             | 26.98              |

## SECTION IV – FIRE AND EXPLOSION DATA

|                      | <u>Cu</u> | <u>Zn</u>              | <u>Al</u>                |
|----------------------|-----------|------------------------|--------------------------|
| <b>Flash Point:</b>  | N/A       | N/A                    | N/A                      |
| <b>Limits: LEL%:</b> | N/A       | 0.5 oz/ft <sup>3</sup> | 0.035 oz/ft <sup>3</sup> |
| <b>UEL%:</b>         | N/A       | N/A                    | N/A                      |

**Extinguishing media:** Foam, CO<sub>2</sub>, Dry Chemical, Water fog.

## SECTION V – REACTIVITY DATA

**Stability:** Material is stable. Hazardous polymerization will not occur.

**Chemical incompatibilities:** Strong alkalis, chlorates, bromates, amines, mineral acids, ammonium salts, potassium nitrate, selenium, sodium peroxide, hydrogen peroxide, sulfur, tellurium, carbon disulfide, chlorine, chlorine trifluoride, chromic anhydride, fluorine, magnesium, iodates, oxides, nitrates, nitrites, chlorides, palladium, manganese, magnesium plus potassium chlorate, sodium carbonate, sulfates, diborane, chlorinated hydrocarbons.

**Hazardous decomposition products:** Decomposition may yield hydrogen and noxious copper and zinc compounds.

## SECTION VI – HEALTH HAZARD INFORMATION

**Target organs:** Respiratory system, nasal septum, skin, eyes, gastrointestinal, kidneys, liver, cardiovascular system.

**Primary entry routes:** Inhalation, ingestion, skin or eye contact.

**Health effects:** Copper dusts and mists are eye and mucous membrane irritants, primary skin irritants and skin sensitizers. Acute exposure may cause metallic taste and nasal ulceration and perforation. Prolonged skin contact may produce sensitization dermatitis. Exposure may result in irritation and metal-fume fever, metallic taste, and discoloration of the skin and hair. Ingestion of copper compounds may cause vomiting and collapse. Acute poisoning is characterized by hemolysis, jaundice, anuria, hypertension, and convulsions. If exposed to excessively high temperatures, zinc metal fumes cause metal fume fever. Aluminum metallic powder is an eye and mucous membrane irritant.

### **FIRST AID**

**Eye contact:** Immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Seek medical attention immediately. Contact lenses should not be worn.

**Skin contact:** Flush contaminated skin with water. Get medical attention if irritation occurs/persists.

**Inhalation:** Move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

**Ingestion:** Emergency treatment - dilute with water or milk. Remove by gastric lavage (i.e. stomach tube) unless patient is vomiting. Get medical attention as soon as possible.

### 3 SECTION VII – SPILL, LEAK AND DISPOSAL PROCEDURES

**Spill/leak procedures:** Sweep gently to avoid dust cloud formation.

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

### SECTION VIII – SPECIAL PROTECTION INFORMATION

**Personal protective equipment:**

**Goggles:** Safety goggles with side shields, if needed.

**Gloves:** Required for those with extreme sensitivity.

**Respirator:** Wear supplied air respirator under confined or enclosed spaces, if needed.

**Workplace considerations:** Eye-wash fountain, soap and water wash station.

**Ventilation:** Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible limits.

### SECTION IX – SPECIAL PRECAUTIONS

**Special handling/storage:** N/A

### SECTION X – CARCINOGENITY STATUS

**NTP:** Not listed

**IARC:** Not listed

**OSHA:** Not listed

### SECTION XI – SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

| <u>CAS#</u> | <u>Chemical Name</u> | <u>Percent by Weight</u> |
|-------------|----------------------|--------------------------|
| 7440-50-8   | Copper               | 70-95%                   |
| 7440-66-6   | Zinc                 | 5-30%                    |
| 7429-90-5   | Aluminum             | <2%                      |

This information must be included in all MSDSs that are copied and distributed for this material.

### SECTION XII OTHER INFORMATION

Keep out of reach of children. Read and follow all label instructions. This information is based on our present knowledge. However, this is not a guarantee of specific product features. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer or distributor be responsible for the damages of any nature whatsoever resulting from the use of or reliance upon information.

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Reviewed by Manufacturer: 05/12