



# Eagle Redox Alloy<sup>®</sup> 6500 & 9500

## SAFETY DATA SHEET

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### 1. General Information

**NAME:** BRASS POWDER  
**TRADE NAME AND SYNONYMS:** None  
**CHEMICAL FAMILY:** Metal Alloy Powder  
**FORMULA:** Cu/Zn  
**DOT HAZARD CLASS:** Not Listed

**CAS NO.:** See Below  
**UN NO:** N/A  
**NA NO:** N/A

### 2. Ingredients

Material	Case No.	%
Copper	7440-50-8	48-51
Zinc	7440-66-6	49-52

### 3. Physical Data

**BOILING POINT (760 MM HG):** N/A  
**SPECIFIC GRAVITY:** 8.25  
**VAPOR DENSITY (air = 1):** N/A  
**PERCENT VOLATILE BY VOLUME (%):** N/A  
**APPEARANCE AND ODOR:** Brass-colored metallic particles with no odor.

**MELTING POINT:** 1585 - 1610°F  
**EVAPORATION RATE (=1):** N/A  
**SOLUBILITY IN WATER:** Insoluble  
**VAPOR PRESSURE 20°C:** N/A

### 4. Fire and Explosion Data

**FLASH POINT (Method Used):** N/A  
**FLAMMABLE LIMITS:** LEL: N/A  
UEL: N/A  
**EXTINGUISHING MEDIA:** N/A  
**SPECIAL FIRE FIGHTING PROCEDURES:** N/A  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** N/A

**NFPA FIRE RATING**  
**HEALTH:** 0  
**FLAMMABILITY:** 0  
**REACTIVITY:** 0

## 5. Health Hazard Data

MATERIAL	FORM	OSHA - PEL		ACGIH - TLV	
		TWA	STEL	TWA	STEL
		mg/M3	mg/M3	mg/M3	mg/M3
COPPER	Dust	1.0	--	1.0	--
	Oxide Fume	0.1	--	0.2	--
ZINC	Oxide Fume	5		5	10

### ROUTES OF ENTRY

**PRIMARY:** Inhalation if the dust has become airborne.

**SECONDARY:** Ingestion

## 6. Short Term Overexposure Effects

### COPPER (FUME):

Excessive inhalation of copper fumes can produce an acute reaction known as "metal fume fever." Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures.

### ZINC:

Inhalation of high levels of zinc vapor (zinc oxide fumes) may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Overexposure may produce symptoms known as metal fume fever or "zinc shakes"; an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Inhalation of dust may be an irritant to pre-existing respiratory conditions.

### EMERGENCY AND FIRST AID PROCEDURES:

Symptoms resulting from inhalation overexposure usually disappear within 24 hours. Symptomatic treatment, such as bed rest and possibly aspirin is recommended to provide relief from fever and chills.

Eye contact - flush areas with copious amounts of water.

Skin contact - thoroughly wash affected areas with water.

In all cases, consult physician for medical attention.

## 7. Long Term Overexposure Effects

### COPPER (FUME):

Chronic exposure to copper may result in anemia, but chronic poisoning does not occur.

### ZINC:

Chronic exposure to zinc may cause respiratory tract irritation with nasopharyngitis and laryngitis.

### CARCINOGENIC ASSESSMENT:

NTP? No

IARC MONOGRAPH? No

OSHA? No

## 8. Reactivity Data

**STABILITY:** ( ) Unstable (X) Stable

**CONDITIONS TO AVOID:** N/A

**INCOMPATIBILITY (MATERIALS TO AVOID):** Avoid contact with oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None.

**HAZARDOUS POLYMERIZATION:** ( ) May occur (X) Will not occur

## 9. Spill or Leak Procedures

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Avoid dusting; metal should be contained for recycling.

### WASTE DISPOSAL METHOD:

Contain in a dry, closed container. Material may be recycled or disposed of in accordance with Federal, State and Local Environmental Regulations. This material may be regulated under CERCLA, TSCA, SARA, and/or RCRA Regulations.

## 10. Special Protection Information

### RESPIRATORY PROTECTION (SPECIFY TYPE):

Use NIOSH/MSHA approved type respirator against dusting conditions.

### VENTILATION:

Local exhaust or other ventilation that will reduce dust concentrations to less than permissible exposure limits.

### PROTECTIVE GLOVES:

Recommended to prevent skin irritation.

### EYE PROTECTION:

Use safety eyewear for protection against airborne particulate matter.

### OTHER PROTECTIVE EQUIPMENT:

Barrier creams may help prevent skin irritation in hypersensitive individuals.

## 11. Special Precautions

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in a cool, dry, well-ventilated space, separate from acids and alkalis.

### OTHER PRECAUTIONS:

Practice good personal hygiene when working in areas where this material is used.

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