MATERIAL SAFETY DATA SHEET B3-1

UNITED STATES BRONZE POWDERS, INC.

HMIS RATING:

P.O. BOX 31, 408 ROUTE 202

HEALTH: FLAMMABILITY:

.L

FLEMINGTON, NJ 08822

REACTIVITY:

0

TELEPHONE: 908-782-5454

PERS. PROTECTION: E

SECTION I. DATERIAL IDENTIFICATION

Material Name: BRONZE FOURTR (TAP BRONZE POWDER)

Item Number: B-401, B-402, B-406, B-403, B-409, B-410, B-432

SPHERICAL BRONZE: 22/36, 30/44, 36/44, 36/60, 85/150, 85/200, 89/11, 100/240, 120/200, 170/300,

SBP90/10 -325

CAS Number:

ALLOY

SECTION II. INGREDIENTS AND EXPOSURE LIMITS

Ingredient	CAS Number	%	ACGIH TLV-TWA	OSHA PEL-TWA	
COPPER	7440-50-8	50-90	1 mg/m3	dust 1.0 mg/m3 fume 0.1 mg/m3	
TIN	7440-31-5	10-50	2 mg/m3	2.0 mg/m3	
	SECTION III.	PHYSI	CAL DATA	***************************************	

Appearance and Odor: Reddish to gold color, odorless.

	COPPER		TIN		
Boiling Point:	4653 °F	(2567 °C)	4100 °F	(2260	°C)
Evaporation Rate:	N/A		N/A		

Vapor Pressure(lmm Hg): @2962°F (1628°C) N/A
Specific Gravity (H2O=1): 8.92 7.28

Water Solubility (%): INSOLUBLE INSOLUBLE

Melting Point: 1981 °F (1083 °C) 449 °F (232 °C)

Vapor Density (air=1): N/A N/A N/A % Volatile by Volume: 0 0 Molecular Weight: 63.54 118.7

Molecular Weight: 63.54 118.

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point: N/A

COPPER TIN

Limits: LEL%: N/A 0.19 oz/ft3

UEL%: N/A N/A

Extinguishing media: Foam, CO2, Dry Chemical, Water Fog.

SECTION V. REACTIVITY DATA

Material is stable.

Hazardous polymerization will not occur.

MATERIAL SAFETY DATA SHEET B3-1

Chemical incompatibilities: Strong alkalies, chlorates, bromates, turpentine, mineral acids, amines.

Hazardous decomposition profess: Decomposition only yield hydrogen and noxious copper compounds.

SECTION VI. A TEMM HAMBED INTORNATION

and the second of the second o

Target organs: Respiratory system, nasal septor, Skin, eyes, gastrointestinal system, killneys, liver, cardiovascular system. Primary entry routes: Inhalation, ingestion, skin or eye contact.

.

Health effects: Copper dusts and mists are eye and mucous membrane 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, hypotension and convulsions.

Inorganic tin compounds are eye, mucous membrane and primary skin irritants, Acute exposure may irritate the eyes and repiratory tract. Repeated or prolonged skin contact produces dermititis. 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. Seek medical attention if irritation occurs/persists.

Inhalation: If a person breathes in large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Seek 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.

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.

MATERIAL SAFETY DATA SHEET B3-1

BUSCHAIMER OF BIABILITY

The information provided is based on data furnished to us by our In patrice of determine living that the Complete part of the time that The second section of the second second R of chot was form · · · redible . the importation and products are intended not use by skiried persons at their own risk. Users should make their own conterminations as to the substituty of the product for their particular use or purpose. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED, OR IS IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. Seller assumes no responsibility for events resulting or damages incurred from the use of this product and any obligations between seller and buyer are to be controlled by the terms and conditions contained in seller's acknowledgement forms.

ISSUE DATE: 11/18/02 REPLACES: 06/01/02