

## **SECTION 1. IDENTIFICATION**

Product/Trade Name: MPK – Tin/Bismuth/Copper/Silver  
Recommended Use: Industrial or Professional

Info furnished by: Hallmark Metals Corporation  
930 Wellington Avenue  
Cranston, RI 02910  
Ph: 401-467-8000  
Fx: 401-467-2111

Emergency Telephone Number  
Poison Control: 1-800-222-1222

## **SECTION 2. HEALTH HAZARDS DATA**

**Signal Word:** N/A

**Hazard Statements:** Not classified as toxic or hazardous.

**Precautionary Statements:** Avoid breathing dust or fumes. Use only in well ventilated area. Wash hands thoroughly after handling. Dispose of in accordance with local and federal regulations.

## **SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

ELEMENT	CAS	%WT	Carcinogen	TLV/TWA	OSHA PEL ACGIH/ OSHA
*Tin	7440-31-5	95-98	No	2.0 mg/cu m	2.0 mg/cu m
*Bismuth	7440-69-9	0-4	No	NE	NE
*Copper	7440-50-8	0-2	No	0.2 mg/cu m	0.01 mg/cu m (fume)
*Silver	7440-22-4	0-2	No	0.01 mg/cu m	0.01 mg/cu m

\*Product contains one or more of these metallic elements in varying percentages by weight.

## **SECTION 4. FIRST-AID MEASURES**

**Eye Contact:** Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Ingestion:** Do not induce vomiting. Loosen tight clothing. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Use special mixtures of dry chemicals. Do not use water or moist sand. Fire fighters should wear self-contained breathing apparatus and protective clothing.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

No special precautions are necessary for spills of bulk material. If large quantities of dust are spilled, remove by vacuuming with a "Hepa" filter or wet sweeping to prevent heavy concentrations of airborne dust. Clean-up personnel should wear respirators and protective clothing.

Metal can be reclaimed for refuse. Follow federal, state, and local regulations regarding disposal.

### **SECTION 7. HANDLING AND STORAGE**

Store material away from incompatible materials, and keep dust away from sources of ignition.

### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Use general and local exhaust ventilation to keep airborne concentrations of dust or fume below the TLV. Employees should wear OSAH or NIOSH approved respirators for protection against airborne dust or fumes. Full protective clothing should be worn by workers exposed to heavy concentrations of dust, and showering should be required before changing into street clothes. Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis. Approved safety glasses or goggles should be worn when working with dusty material and molten metal. Safety stations should be provided in close proximity to work areas.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point	428 - 446° F depending on composition
Boiling Point	4100° F
Vapor Pressure	Not Volatile
Vapor Density (air is 1)	Not Volatile
Solubility in Water	NIL
Appearance & Color	Silver to gray metal
Specific Gravity g/cc	7-11 approx. depending on composition
Odor	None
% Volatile	Nil
pH	N/A
Evaporation	N/A

### **SECTION 10. STABILITY AND REACTIVITY**

Massive material is stable at ordinary temperatures, but dust presents moderate fire and explosion hazards. Material may be incompatible with acids, bases, and oxidizers. Molten metal may react violently with water. For additional information, users should consult data sheets on individual component elements.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Inhalation – May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion – May be harmful if swallowed

Skin – May be harmful if absorbed through skin. Causes skin irritation.

Eyes – Causes eye irritation

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Metal can be claimed for refuse. Follow Federal, State, and local regulations regarding disposal

### **SECTION 16. OTHER INFORMATION**

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