

**SECTION 1. IDENTIFICATION**

**Product Name:** HP88 (Tin/Lead/Antimony/Cadmium alloy)  
**Recommended Use:** Industrial or Professional

**Manufacturer:** 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. HAZARDS IDENTIFICATION**



**DANGER**

Target Organ Toxicity. May cause cancer  
Acute Toxicity (fatal or toxic)  
Skin irritant  
Toxic to aquatic life

**Hazard Statements:** Toxic if swallowed. Harmful if inhaled. May cause damage to organs with repeated Exposure.

**Precautionary Statements:** Avoid breathing dust or fumes. Use only in well ventilated area.  
Wash hands thoroughly after handling. If swallowed call poison control or doctor. Dispose of in accordance With local and federal regulations.

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

Element	CAS	%WT	Carcinogen	TLV/TWA	OSHA PEL
*Tin	7440-31-5	86-90	No	2.0 mg/cu m	2.0 mg/cu m
*Lead	7439-92-1	7-11	Yes	0.05 mg/cu m	0.05 mg/cu m
*Cadmium	7440-43-9	1-4	Yes	0.002 mg/cu	0.005 mg/cu m
*Antimony	7440-36-0	1-4	No	0.5 mg/cu m	0.5 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. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

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

Fire Extinguisher Type: Special powder or dry sand. Do not use water!

Fire/Explosion Hazards: Dust at sufficient concentrations can form explosive mixtures with air.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and 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 or wet sweeping to prevent heavy concentrations of airborne dust. Clean-up personnel should wear respirators and protective clothing.

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

**Handling:** Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Evaporate the residue under a fume hood. Ground

All equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. Wear suitable respiratory equipment.

**Storage:** Store locked up. Keep container tightly closed in a cool place.

#### **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

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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	360 - 620° F
Boiling Point	N/A
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	7.6318 depending on composition
Odor	None
% Volatile	Nil
pH	N/A
Evaporation	N/A

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

<b>Reactivity:</b>	Not generally reactive under normal conditions.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Exposure to air. Keep lid tightly closed when not in use.

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

<b>Inhalation –</b>	May be harmful if inhaled.
<b>Ingestion –</b>	May be harmful if swallowed

### **SECTION 13. DISPOSAL INFORMATION**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer to assure compliance.

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

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Date revised: January 27, 2017

**END OF SDS**