

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Tin (Capsules, Accelerator, Foil Cups, Plugs)

AR059, AR 059F, AR 570, AR 571, AR2186, AR2186-200, AR2166, AR2167, AR 695, AR 076, AR 639, AR 242, AR2187, AR1963, ATD-1000, ATD-1001, ATD-1002, ATD-1003, ATD-1006, ATD-1007, ATD-1008, ATD-1009, ATD-1010, ATD-1011, ATD-5216, ATD-1027, ATD-1029, ATD-4023, ATD-4002, ATD-4005

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS NO.   | %W  | CHEMICAL NAMES | OSHA<br>PEL (mg/m3) | ACGIH<br>TLV (mg/m3) | NIOSH<br>TWA (mg/m3) |
|-----------|-----|----------------|---------------------|----------------------|----------------------|
| 7440-31-5 | >99 | Tin            | 2                   | 2                    | N/A                  |

## 3. HAZARD IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INHALATION: The inhalation of inorganic tin fumes or dust may cause an apparent benign pneumoconiosis called stannosis which is reported not to be disabling.

INGESTION: Not available.

CHRONIC OVEREXPOSURE: Not available.

ACUTE OVEREXPOSURE: Not available.

MEDICAL CONDITIONS AGGRAVATED: Not available.

CARCINOGENICITY: None.

## 4. FIRST AID MEASURES

EYES: Flush with large amounts of water. Get medical attention

INHALATION: Removed from exposure to fresh air immediately. Get medical attention

SKIN: Wash skin with plenty of soap and water. Vacuum off excess dust. Avoid blowing particulate into the atmosphere.

INGESTION: seek medical attention if large quantities of material have been ingested.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

Non-flammable

Flash Point: Not available

Flammable Limits: (% by Volume in Air): Lower: None Upper: None

AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: Not available.

EXTINGUISHING MEDIA: Use special mixture of dry chemical or sand.

FIREFIGHTING INSTRUCTIONS: Solid, massive form is not combustible. Fire and explosion hazards are moderate when material is in the form of dust and exposed to heat, flames, chemical reaction or contact with powerful oxidizers. Fire fighters should wear self-contained breathing apparatus and protective clothing.

## **6. ACCIDENTAL RELEASE MEASURES**

SMALL/LARGE SPILL: 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. Follow federal state and local regulations. Cleanup personnel should wear respirators and protective clothing.

## **7. HANDLING AND STORAGE**

HANDLING: Keep dust from sources of ignition. Use precautions in lifting and prevent dropping.

STORAGE: Keep container closed. Keep dust from sources of ignition. Store material away from incompatible materials. .

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

ENGINEERING CONTROLS: Local exhaust.

RESPIRATORY PROTECTION: NIOSH/MSHA respirator if exposure above the PEL or TLV.

SKIN AND HAND PROTECTION: Required based on application.

EYE AND FACE PROTECTION: Require for melt, grind, cut and weld operations. Minimum requirement of safety glasses with side shields for these operations. Melting and welding may require special eye protection including face shields and specially tinted glass. Grinding operations may also require face shield.

OTHER PROTECTIVE EQUIPMENT: as required.

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

APPEARANCE: silvery white metal

BOILING POINT: 5018 F (2770 C)

FREEZE-MELT POINT: 450 F (232 C)

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN WATER: Insoluble.

SPECIFIC GRAVITY: 7.3

pH: N/A

ODOR: None

PERCENT VOLATILES: N/A

EVAPORATION RATE: N/A

## **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal conditions of storage. Molten metal may react violently with water.

INCOMPATIBILITY: Acids, bases and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Metal Fumes.

HAZARDOUS POLYMERIZATION: None.

## **11. TOXICOLOGICAL INFORMATION**

Possible Teratogen.

## **12. ECOLOGICAL INFORMATION**

None available.

## **13. DISPOSAL CONSIDERATION**

Dispose of in accordance with federal, state and local regulations. Cleanup personnel should wear respirators and protective clothing. .

## **14. TRANSPORTATION INFORMATION**

USA DOT: Not regulated

## **15. REGULATORY INFORMATION**

### **US FEDERAL REGULATIONS**

TSCA STATUS: On toxic Substance Control Inventory

CERCLA Reportable Quantity: None

RCRA Status: Not regulated

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: Acute, Chronic

Section 313 Toxic Chemicals: None

### **CANADAIN REGULATIONS**

WHMIS: Not regulated

## **16. OTHER INFORMATION**

### **SUPPLEMENTAL INFORMATION**

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

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