

Product/Trade Name: LM281 – Tin/Bismuth Alloy
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 | 42 | No | 2.0 mg/cu m | 2.0 mg/cu m |
| *Bismuth | 7440-69-9 | 58 | No | NE | NE |

*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 | 281° 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 | 8.721 |
| 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

This fact sheet was prepared by Hallmark Metals Corporation. The information recommendations and suggestions were compiled from reference materials and other sources believed to be reliable. However, the fact sheets' accuracy or completeness is not guaranteed by Hallmark Metals Corporation, nor is any responsibility assumed or implied for any loss or damage resulting from inaccuracies or omissions. Appropriate warnings and safe handling procedures should be provided to handlers and users. No warranty is implied or expressed regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated.

Date revised: January 27, 2017

END OF SDS