Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
Emergency Number: (800) 255-3924

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: S25776, S25776A
Product Identity: Onion's Fusible Alloy

Chemical Family: Not Applicable
Synonyms: None
Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 08/14/12
Revision Date:

Section 2 – Hazard Identification

Emergency Overview
Substance is not considered hazardous. However, not all health aspects of this substance have been thoroughly investigated.
Appearance: Silvery white metal **Odor:** Odorless
Target Organs: None known
Potential Health Effects/ Routes of Exposure:
Eyes: Dust, vapor and/or fume may cause irritation.
Skin: Dust, vapor and/or fume may cause irritation.
Ingestion: Dust, vapor and/or fume may be absorbed by the digestive system
Inhalation: Dust, vapor and/or fume may be irritating to the respiratory system
Chronic Effect / Carcinogenicity: None known
Aggravated Medical Conditions No information available
These chemicals are not considered hazardous by OSHA.
See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 –Composition, Information on Ingredients

Bismuth CAS# 7440-69-9, 50% w/v
Lead, CAS# 7439-92-1, 30% w/v
Tin, CAS# 7440-31-5, 20% w/v

Section 4 – First Aid

Eyes: Flush eyes with water for at least 15 minutes. Get medical assistance immediately.
Skin: Flush with water for 15 minutes while removing contaminated shoes and clothing. Get medical aid.
Ingestion: DO NOT induce vomiting. Call poison control or a physician immediately.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Get medical attention.
Notes to Physician Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable **Autoignition Temperature** Not Applicable
Explosion Limits Upper No data available **Lower** No data available
Extinguishing Media: dry chemical fire extinguisher.
Unsuitable Extinguishing Media: No information available
Fire & Explosion Hazards: Noncombustible solid.
Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.
Hazardous Combustion Products: Combustion generates toxic fumes.
Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.
Specific Hazards Arising from the Chemical: Thermal decomposition can lead to the release of irritating gas or vapors.
NFPA Rating: (estimated) Health: 0; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions Use proper personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.
Environmental Precautions No information available.
Methods for Containment and Clean Up Clean up spills immediately observing spills in Section 8. Sweep up or vacuum and containerize for disposal. Provide ventilation. Avoid generating dust. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Remove contaminated clothing and wash before reuse. Avoid contact with skin, eyes and clothing. Avoid inhalation and ingestion.
Storage: Keep containers tightly closed in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 – Exposure Controls, Personal Protection

Bismuth CAS# 7440-69-9, ACGIH TLV: NA, OSHA PEL: NA
Lead, CAS# 7439-92-1, ACGIH TLV: 0.05 mg/m3, OSHA PEL: 50æg/m3
Tin, CAS# 7440-31-5, ACGIH TLV: 2 mg/m3, OSHA PEL: 2gm/m3
Engineering Measures/ General Hygiene: Ensure eyewash and safety showers are available.
Personal Protection Equipment: Skin Protection: Chemical resistant gloves.
Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation adequate.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Silvery white metal
Odor: Odorless
Boiling Point: No information available
Melting Point: 92C
Vapor Density: No information available
Evaporation Rate: Not available
pH: No information available
Flammability: No information available
Solubility: Insoluble in water
Relative Density: No information available
% Volatility: No information available
Specific Gravity: Not available
Vapor Pressure: Not available
Flash Point: Not applicable
Coefficient of water/oil distribution: Not available
Odor Threshold: Not available
Decomposition Temperature: Not available
Partition Coefficient n-octanol/water: Not available
Molecular Weight: Not available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatible Materials: Strong oxidizing agents, aluminum and air, ammonium nitrate, chloric acid, chlorine, iodine pentafluoride, nitric acid, perchloric acid, nitrosyl fluoride, iodine pentafluoride and halogens, sodium peroxide, sulfur, copper nitrate, hydrochloric acid, tin chloride, potassium peroxide.
Conditions to Avoid: Dust generation, excess heat.
Hazardous Decomposition Products: Lead oxides, bismuth oxides, tin oxides

Hazardous Polymerization: Does not occur
Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2
LD50 orl-rat: 5000 mg/kg (Bismuth) LC50 inhalation-rat: Not available
Irritation: No information available.
Toxicologically Synergistic: No Information Available
Chronic Exposure
Carcinogenicity Lead – known carcinogen in California. NTP: Suspected carcinogen. IARC: Group 2A carcinogen.
Sensitization No information available.
Mutagenic Effects No information available.
Reproductive Effects No Information available.
Developmental Effects (Immediate/Delayed) No information available.
Teratogenicity No information available.
Other Adverse Effects No information available.
Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: No information available
Persistence and Degradability: No Information Available **Mobility:** No information available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 – Transport Information

DOT – Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.
Canada DSL: These chemicals are on Canada's DSL list.
TSCA: These chemicals are listed on the TSCA Inventory.
SARA Title III Section 313: Not applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Not Applicable
WHMIS: Not controlled
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.