



CANFIELD TECHNOLOGIES, LLC



BOW ELECTRONIC SOLDERS

Safety Data Sheet

According to 1907-2006/EC, Article 31

Revised 01/06/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: Diamond Lead Free Solid Wire Solder

Details of the supplier of the safety data sheet.

This Safety Data Sheet has been updated in accordance with the Globally Harmonized System (GHS).

Manufacturer Name: Canfield Technologies/BOW Electronic Solders

Address: 1 Crossman Road, Sayreville, NJ 08872

General Phone Number: 732-316-2100

INFOTRAC 24 Hour Emergency Telephone Number: 1-800-535-5053

SDS Creation Date 6-Jan-15

SDS Revision Date: 6-Jan-18

2. HAZARDS IDENTIFICATION

GHS LABEL

Precautionary statements

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Disposal:

P501 Dispose of contents/container in accordance to local/regional/national/international regulations.

Potential Health Effects

Eyes: Fumes from this and other soldering products may cause eye irritation.

Skin: Fumes from this and other soldering products may cause skin irritation.

Ingestion: Ingestion of this or other soldering products may cause headache, nausea, and muscular pain.

Inhalation: Inhalation of the fumes from this and other soldering products may cause headache, nausea, and muscular pain.

Carcinogenicity: Not listed as a carcinogen by NTP, OSHA, or ACGIH.

Medical conditions aggravated: Pre-existing conditions of the lungs, kidneys, nervous system and possibly reproductive systems; diseases of the blood forming organs.

Routes of entry: Inhalation, ingestion, eye or skin contact.

3. COMPOSITION /INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixtures of the substances listed below with nonhazardous additions.

CAS No.	Description	% Range
CAS: 7440-31-5	Tin	41.5-42.5%
EINECS:231-141-8		
CAS: 7440-69-9	Bismuth	57.5-58.5%
EINECS: 231-177-4		

4. FIRST AID MEASURES

Eyes

Molten product:

Cool burns with plenty of low-pressure water. Get immediate medical attention.

Solid product:

Remove any contact lenses. Immediately flush eyes with large quantities of water for at least 15 minutes. Get medical attention if irritation develops.

Skin

Molten product:

Immediately cool skin burns with water and cold packs for at least 15 minutes.

Do not put ice directly on the skin. Do not attempt to remove solidified product from the skin, as damage may result.

Get immediate medical attention.

Solid product:

Immediately wash skin with soap and copious amounts of water.

Use lotion to prevent dryness. Get medical attention if irritation develops.

Ingestion:

If person is conscious, immediately give 2 glasses of water. Do not induce vomiting. Get immediate medical attention.

Inhalation:

If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.

Signs and symptoms of overexposure

Skin: Discomfort or rash.

Inhalation: Irritation of the pulmonary system.

Chronic effects:

Prolonged or repeated exposure due to ingestion may cause anemia, insomnia, weakness, constipation and abdominal pain.

Prolonged or repeated exposure due to skin exposure and inhalation may cause skin rash and damage to the mucous membranes.

Comments:

If victims of chemical over-exposure are taken for medical attention, give a copy of the label or this SDS to the physician/health care professional.

5. FIREFIGHTER MEASURES

Explosion hazards: None known.

Fire fighters equipment:

Self contained breathing apparatus with full face piece operated in positive pressure demand mode, appropriate turn-out gear and chemical resistant personal protective equipment is recommended.

6. ACCIDENTAL RELEASE MEASURES

General procedures:

If the material is in its solid state, pick up and reuse.

When molten, allow to solidify, and then reuse if it is not contaminated, refer to Section 13 for proper disposal procedures.

Release notes:

Avoid repeated or prolonged breathing or skin contact. Wash immediately, and remove material from under the fingernails.

7. HANDLING AND STORAGE

General procedures:

Do not store or use near sparks or open flames.

Keep containers tightly closed and upright when not in use in order to prevent leakage.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering controls:

General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled and in closed equipment.

Special local ventilation is needed at points where vapors can be expected to escape into the workplace air.

Personal protective equipment

Eyes and Face:

Face shield, safety glasses with side shield or chemical splash goggles. When working with molten material, face shield recommended.

Skin:

Rubber, chemical resistant gloves. When material is heated, wear gloves to protect against thermal burns.

Respiratory:

Not normally needed in well ventilated areas. If the ventilation is insufficient to remove smoke from soldering process's , use NIOSH/MSHA approved cartridge type respirator.

Protective clothing:

Protective clothing and safety shoes as necessary to minimize contact.

Work hygienic practices:

Good personal hygiene practices should be used .

Wash after any contact, before eating, and at the end of work day.

Other use precautions:

Eye wash station and quick drench safety shower in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties**General Information**

Appearance:	Metal in wire form
Physical state:	Solid
Odor:	Mild
Color	Metallic gray
pH-value:	N/A
Change in condition	
Melting point/melting range:	139°C (282 °F)
boiling point/boiling range:	>1650°C (3000°F)
Flammability limits:	No information available
Flash point:	No information available
Auto igniting:	No information available
Vapor pressure:	No information available
Vapor Density:	N/A
Specific gravity:	8.64 to 8.80 (water=1)
Solubility in / miscibility with Water:	Insoluble

10. STABILITY AND REACTIVITY

Stability:

Stable under ordinary storage conditions.

Polymerization:

Will not occur.

Hazardous decompositions products:

None known.

Incompatible materials:

Strong acids, strong oxidizers should be avoided.

11. TOXICOLOGICAL INFORMATION

General comments:

No toxicological information available at this time.

12. ECOLOGICAL INFORMATION

General comments:

No information on ecological toxicity or biodegradability is available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal method:

Dispose of this material, contaminated absorbent material and other contaminated materials in an approved waste disposal facility, according to all applicable federal, state, an local regulations.

Recovery and reuse, rather than disposal, should be the ultimate goal in handling efforts.

14. TRANSPORT INFORMATION

DOT (Department of transportation)

Proper shipping name:

Not regulated by DOT.

15. REGULATORY INFORMATION

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories:

Chronic health hazard.

313 Reportable Ingredients:

None.

TSCA (Toxic Substance Control Act)

TSCA Status:

All ingredients are listed or are exempt from listing (as polymers) on the toxic Substance Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Bow and Canfield Technologies extends no warranties, makes no representations and assumes No responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. This Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Safety Data Sheet as a source for hazard information.

Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

ICAO: International Civil Aviation Organization.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Code for Dangerous Goods.

DOT: US Department of Transportation.

IATA: International Air Transport Association.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

NFPA: National Fire Protection Association (USA).

HMIS: Hazardous Materials Identification System (USA).

WHMIS: Workplace Hazardous Materials Information System (Canada).

***Data compared to the previous version altered.**