

# Safety Data Sheet

According to 1907-2006/EC, Article 31

Revised 01/06/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** BLF227 Bar 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

**MSDS Creation Date** 6-Jan-15

**MSDS Revision Date:** 6-Jan-18

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**Classification according to Regulation (EC) NO 1272/2008**

Resp. Sens. 1 **H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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**Eye Irrit. 2 H319** Causes serious eye irritation.

**Skin Sens. 1 H317** May Cause an allergic skin reaction.

**STOT SE 3 H335** May cause respiratory irritation.

**Label elements**

**Labeling according to Regulation (EC) No 1272/2008**

The product is classified and labeled according to the CLP regulation.

**Hazard pictograms**



GHS07

**Signal word** Danger

**Hazard Statements**

**H319** Causes serious eye irritation.

**H317** May cause an allergic skin reaction.

**H335** May cause respiratory irritation.

**Precautionary statements**

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**P304+P340** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

**P302+P352** IF ON SKIN: Gently wash with plenty of soap and water.

**P402** Store in a dry place.

**P501** Dispose of contents/container in according with local/regional/national regulations.

**Additional information:**

For use in industrial installations only.

Restricted to professional users.

**Other hazards**

**Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

### 3. COMPOSITION OF MIXTURE

#### Chemical characterization: Mixtures

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

CAS No.	Description	% Range
CAS: 7440-31-5	Tin	99-99.5
EINECS:231-141-8		
CAS: 7440-50-8	Copper	0.5-1.0
EINECS:231-159-6		

#### Additional information:

This solder product does not contain any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list.

Composition and weight percent of solder alloys varies widely and can be determined by product label.

### 4. FIRST AID MEASURES

#### Description of first aid measures

**After inhalation:** Supply fresh air, consult doctor in case of complaints.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Seek immediate medical advice.

#### Information for doctor:

Most important symptoms and effects, both acute and delayed. No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5. FIREFIGHTER MEASURES

#### Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

**For safety reasons unsuitable extinguishing agents:** Water

#### Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbone monoxide (CO)

Nitrogen oxides (Nox)

Carbone dioxide (CO<sub>2</sub>)

#### Advise for fire fighters

**Protective equipment:** Wear self-contained respiratory protective device.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation

**Environmental precautions:** Do not allow to enter sewers/surface or ground water.

#### Methods and material for containment and clearing up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See section 13 for disposal information.

### 7. HANDLING AND STORAGE

#### Handling:

##### Precautions for safe handling

Prevent formation of dust.

##### Ensure good ventilation/exhaustion at the workplace.

**Information about fire - and explosions protection:** No special measures required.

##### Conditions for safe storage, including any incompatibilities

##### Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: not required.

Further information about storage conditions: None.

**Specific end use (s):** No further relevant information available.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Additional information about design of technical systems:** No further data; see item 7.

### Control parameters

**Components with limit values that require monitoring at the workplace:**

**Tin 7440-31-5**

**PEL Long-term value** 2mg/m<sup>3</sup> metal

**REL Long-term value** 2mg/m<sup>3</sup>

**TLV Long-term value** 2mg/m<sup>3</sup> metal

### Exposure controls

#### Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

#### Breathing equipment:

**Exposure controls:** Use appropriate engineering control such as process enclosures, local exhaust ventilation to control airborne levels below recommended exposure limits.

When ventilation is not sufficient to remove airborne levels from the breathing zone, a NIOSH safety approved respirator or self-contained breathing apparatus should be worn. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

#### Protection of hands:



**Protective gloves**

#### Material of gloves:

**Nitrile rubber, NBR**

**Natural rubber, NR**

#### Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and to be observed.

#### Eye protection :



**Face Shield when refilling**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

**Form:** Solid material

**Color:** Silver grey

**Odor:** Mild

**pH-value:** Not determined.

##### Change in condition

**Melting point/melting range:** 441-590 °F

**Flash point:** Undetermined.

**Auto igniting:** Product is not self igniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Density at 20°C ( 68°F ):** 7.31-7.42 g/cm<sup>3</sup>

**Solubility in / miscibility with Water:** Insoluble

## 10. STABILITY AND REACTIVITY

### Reactivity

#### Chemical stability

Thermal decomposition /conditions to be avoided: No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** Strong acids, strong oxidizers.

**Hazardous decompositions products:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity:

Primary irritant effect:

Skin corrosion/irritation Irritation to skin and mucous membranes.

Serious eye damage/irritation. Smoke during soldering can cause eye irritation.

#### Additional toxicological information:

The product shows the following dangers according to the calculation methods of the General EU Classification Guidelines for preparations as issued in the latest version:

Harmful

Irritant

#### Carcinogenic categories

**IARC** (International Agency for Research on Cancer)

None of the ingredients is listed.

**NTP** (National Toxicology Program)

None of the ingredients is listed.

## 12. ECOLOGICAL INFORMATION

### Toxicity

**Aquatic toxicity:** No further relevant information available.

#### Additional ecological information:

##### General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### Result of PBT and vPvB assessment

**PBT:** Not applicable.

**VPvB:** Not applicable.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made in accordance to official regulations.

#### Uncleaned packaging's:

**Recommendations:** Disposal must be made in accordance to official regulations.

## 14. TRANSPORT INFORMATION

<b>UN- NUMBER</b>	Not regulated.
<b>UN proper shipping name</b>	Not regulated.
<b>IMDG, IATA</b>	Not regulated.
<b>Transport hazard class (es)</b>	Not regulated.
<b>ADR, IMDG, IATA</b>	
<b>Class</b>	Not regulated.
<b>Packing group</b>	Not regulated.
<b>Environmental hazards:</b>	Not applicable.
<b>Marine pollutant:</b>	No
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation"</b>	

## 15. REGULATORY INFORMATION

### Safety, Health and Environmental regulation/ legislation specific for the substance or mixture

All ingredients are listed on the following Government Inventories:

- China:** Inventory of Existing Chemical Substances in China (IECSC)  
**Korea:** Korea Existing Chemicals List (ECL)  
**Europe:** European Inventory of Existing Commercial Substances (EINECS)  
**Japan:** Inventory of Existing and New Chemical Substances (ENCS)  
**Philippines:** Philippine Inventory of Chemicals and Chemical Substances (PICCS)  
**USA:** TSCA (Toxic Substances Control Act) TSCA Inventory of Chemical Substances

### Labeling according to Regulation (EC) NO 1272/2008

The product has classified and labeled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

### Hazard statements

- H319** Causes serious eye irritation.  
**H317** May cause an allergic skin reaction.  
**H335** May cause respiratory irritation.

### Precautionary statements

- P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P304+P340** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**P301+P330+P331** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
**P302+P352** IF ON SKIN: Gently wash with plenty of soap and water.  
**P402** Store in a dry place.  
**P501** Dispose of contents/container in according with local/regional/national regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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:

- ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road  
**IMDG:** International Maritime Code for Dangerous Goods.  
**IATA:** International Air Transport Association.  
**GHS:** Globally Harmonized System of Classification and Labeling of Chemicals.  
**EINECS:** European Inventory of Existing Commercial Substances  
**ELINCS:** European List of Notified Chemical Substances  
**CAS:** Chemical Abstracts Service (Division of the American Chemical Society)  
**LC50:** Lethal concentration, 50 percent.  
**LD50:** Lethal dose, 50 percent  
**Eye Irrit. 2A:** Serious eye damage/eye irritation, Hazard Category 2A  
**Skin Sens. 1:** Sensitization- Skin, Hazard Category 1  
**STOT SE 3:** Specific Target organ toxicity- Single exposure, Hazard Category 3

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



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