



CANFIELD TECHNOLOGIES, LLC



ELECTRONIC SOLDERS

Safety Data Sheet

According to 1907-2006/EC, Article 31

1. PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: 60Sn/40Pb

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 1/6/2015

SDS Revision Date: 1/6/2021

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) NO 1272/2008



GHS08 Health Hazard

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

Repr. 1A **H360** May damage fertility or the unborn child.

STOT RE2 **H373** May cause damage to organs through prolonged or repeated exposure.



GHS09 Environment

Aquatic Chronic 2 **H411** Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 **H302** Harmful if swallowed.

Acute Tox. 4 **H332** Harmful if inhaled.

Label elements

Labeling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



GHS08



GHS07



GHS09

Signal word Danger

Hazard-determining components of labeling:

Lead

Hazard Statements

- H302+H332** Harmful if swallowed or inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P260** Do not breathe dust/fume/gas/mist/vapors/spray.
P273 Avoid release to the environment.
P264 Wash thoroughly after handling.
P301+P312 If Swallowed : Call a POISON CENTER or doctor/ physician if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container in according with local/regional/national regulations.

Hazard description:

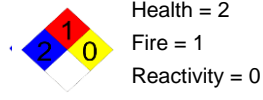
VHMIS HAZARD Symbols

D2A-Very toxic material causing other toxic effects.



Classification system:

NFPA ratings (scale 0-4)



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	59.5-61.5%
EINECS:231-141-8		
CAS: 7439-92-1	Lead	Remainder
EINECS: 231-100-4		

Repr. 1A, H360; STOT RE 2, H373
Aquatic Chronic 2, H411
Acute Tox. 4, H302; Acute Tox. 4, H332

Additional information:

This solder product does contain 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:

In case of unconsciousness place patient stably in side position for transportation.

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:

Induce vomiting, if person is conscious. Seek medical help.

Seek immediate medical advise.

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:

CO2, extinguishing powder or water spray. Fight lager fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO2)

Melted solder above 1000°F will liberate toxic lead fumes.

Aliphatic aldehydes

Advise for fire fighters

Protective equipment: Wear self-contained respiratory protective devise.

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.

Melted solder will solidify on cooling and can scraped up. Use caution to avoid breathing fumes if a gas torch is used to

Cut up large pieces.

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.

Information about protection against explosions and fires: 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:

Keep receptacle tightly sealed.

Store in dry conditions.

Exposure to sulfur or to high humidity will tarnish solder surface.

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 2mg/m³
Metal

REL 2mg/m³

TLV 2mg/m³
Metal

Lead 7493-92-1

PEL 0.05 mg/m³
*see 29 CFR 1910.1025

REL 0.05 mg/m³
excluding lead arsenate; see Pocket guide APP. C

TLV 0.05mg/m³
*and inorganic compounds, as Pb; BEI

Additional information:

PEL = Permissible Exposure Limit (OSHA)

TLV= Threshold Limit Value (ACGIH)

OSHA = Occupational Safety and Health Administration.

ACGIH= American Conference of Governmental Industrial Hygienists

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:	Metal in wire, ribbon, or preformed shapes
Color:	Silver grey
Odor:	Mild
pH-value:	Not determined.

Change in condition

Melting point/melting range:	184°C (363 °F)
boiling point/boiling range:	1740°C(3164 °F)
Flammability (solid, gaseous):	Not determined.
Flash point :	Undetermined.
Auto igniting:	Product is not self igniting.
Vapor pressure:	Not applicable.
Danger of explosion:	Product does not present an explosion hazard.
Density at 20°C (68°F):	7 g/cm ³ (58.415 lbs/gal)
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:

Carbon monoxide and carbon dioxide

When heated to soldering temperatures, the solvents are evaporated and rosin may be thermally degraded to liberate aliphatic aldehydes and acids.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

On the skin:

Irritant to skin and mucous membranes.

Possible local irritation by contact with flux or fumes.

On the eye:

Irritant effect.

Smoke during soldering can cause eye irritation.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Harmful

Carcinogenic categories

IARC (International Agency for Research on Cancer)

Lead 7439-92-1

NTP (National Toxicology Program)

Lead 7439-91-1

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.

Danger to drinking water if even small quantities leak into the ground.

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 according to official regulations.

Uncleaned packaging's:

Recommendations: Disposal must be made to official regulations.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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

USA The following information relates to product regulation specific to the USA.

SARA (Superfund Amendments and Reauthorization Act)

Section 355 (extremely hazardous substances):

None of the ingredients is listed

Section 313 (Specific toxic chemical listings):

Lead 7439-92-1

TSCA (Toxic Substances Control Act): Canfield Technologies certifies that all components listed below for the subject finished Product are on the TSCA Inventory of chemical Substance and are not subject to any chemical specific regulation under TSCA Section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

All ingredients are listed or exempt from listing.

California Proposition 65

Chemicals known to cause cancer:

WARNING: This product contains a chemical (s) known to the State of California to cause cancer.

Lead

Chemicals known to cause reproductive toxicity:

WARNING: This product contains a chemical (s) known to the State of California to cause birth defects and /or other reproductive harm.

Lead

Carcinogenic categories

EPA (Environmental Protection Agency)

Lead 7439-92-1

NIOSH-Ca (NATIONAL Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

CANADA:

Workplace Hazardous Materials Identification (WHMIS):

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR) and the Safety Data Sheet (SDS) contains all of the information required by the CPR.

Labeling according to Regulation (EC) NO 1272/2008

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

Hazard pictograms



GHS07



GHS08



GHS09

Signal word Danger

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Hazard statements

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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. The on this Material 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 Material 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 Transportations.

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).

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent

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



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