



CANFIELD TECHNOLOGIES, LLC



ELECTRONIC SOLDERS

Safety Data Sheet

According to 1907-2006/EC, Article 31

Version: 1.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: 96Sn/4Ag Rosin Core 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-15

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) NO 1272/2008



GHS08 Health Hazard

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



GHS07

Skin Sens. 1B **H317** May cause an allergic skin reaction.

Label elements

Labeling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



GHS08

Signal word Danger

Hazard Statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

Precautionary statements

P285 In case of inadequate ventilation wear respiratory protection.

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

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

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

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

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

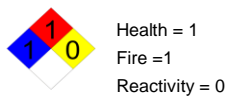
Hazard description:

WHMIS Hazard Symbols



D2B- Toxic material causing other toxic effects.

Classification system:
NFPA ratings (scale 0-4)



HEALTH	1	Health = 1
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity=0

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	96%
EINECS:231-141-8		
CAS: 7440-22-4	Silver	4%
EINECS: 231-131-3		
CAS:8050-09-7	Gum Rosin	Acute tox. 1,H300
EINECS: 232-475-7		Skin Sens. 1, H317

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.

Flux in core is typically 1-3% by weight.

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 advise.

Information for doctor:

Most important symptoms and effects, both acute and delayed.

Indication of any immediate medical attention and special treatment needed.

5. FIREFIGHTER MEASURES

Extinguishing media

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO2)

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:

Melted solder will solidify on cooling and can be 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 further data.

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.

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

Silver 7440-22-4

PEL 0.01 mg/m³
metal and soluble compounds (as Ag)

REL 0.01 mg/m³

TLV 0.1 mg/m³
metal: dust and fume

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 or safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance :

Form: Solid Metal in wire, ribbon, bar

Color: Silver grey

Odor: Mild

pH-value: Not determined.

Change in condition

Melting point/melting range: 221-245 °C

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/cm³

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:

LD/LC50 values that are relevant for classification:

8050-09-7 Gum Rosin

Oral LD50 2.2 mg/kg (mouse)

Dermal LD50 3.0 mg/kg (rat)

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritant effect.

Additional toxicological information:

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

Uncleaned packaging's:

Recommendations: Disposal must be made in accordance to 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.

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):

7440-22-4 Silver

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: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity: None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

7440-22-4 Silver

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



GHS08

Signal word Danger

Hazard-determining components of labeling:

Gum Rosin

Hazard Statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Precautionary statements

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

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 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 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).

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent

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