



Material Safety Data Sheet (MSDS)

1. Manufacturer / Importer Information

Importer : **Oritech Pty Ltd**
Address : 33 Production Drive, Alfredton, VIC, 3350, Australia
No. : 1800 444 344
Fax. No. : 03 5334 2322
E-mail Address : sales@oritech.com.au

MSDS No. : 04/MSDS/II/19

Product Name : **Lead Free Solder Bar SI100C**

2. Composition / Information on Ingredients

Substance/Mixture : Mixture product

Chemical Synonym Name	Ingredients & Composition	CAS No.
Solder Alloy		
Tin – Sn	Remainder	7440 – 31 – 5
Copper – Cu	0.60% ~ 0.80%	7440 – 50 – 8
Nickel – Ni	0.06% ~ 0.08%	8049 – 31 – 8
Germanium – Ge	0.004% ~ 0.006%	7440 – 56 – 4

3. Hazard Identification

Product : No applicable to hazardous substance.

Noxiousness : N/A.

4. Handling and Storage

Handling : Before meal or after completion of operation, make sure to wash hands and gargle the throat.

Provide local ventilator at the work area of soldering.

Storage : Store in a dry place.

<p>5. Protection (Protective Equipment)</p> <p>Inhalation : Safety face protective mask. Eyes : Goggles. Hands : Cotton gloves. Body : Protective apron for electrostatic prevention.</p>
<p>6. Physical / Chemical Properties</p> <p>Outer appearance : Solid Color : White metallic Melting Point : 227°C Specific Gravity : 7.4</p>
<p>7. First Aid Measures</p> <p>Inhalation : Remove the sufferer from the contaminated area and breath the fresh air. Eye contact : Wash with plenty of water, and then call medical expert if necessary.</p>
<p>8. Fire Fighting Measures</p> <p>Extinguishing media : Dry chemical powder, foam and carbon dioxide gas. Hazard : The product is not usual fire and explosion hazard. Protective equipment : Be sure to wear an appropriate protector according to the fire condition when extinguishing. for fire fighting : Prevent catching fire from the origin of fire and extinguishing a fire by extinguishing agent.</p>
<p>9. Accidental Release Measures</p> <p>Personal precautions : Do not smoke, use open fire or other source of ignition. Avoid inhalation of vapors and contact with skin and eyes. Environmental precautions : Avoid discharge into drains, water courses or into the ground. Method for cleaning up : Scrap up spill. Disposal of waste in plastic container. Assure disposal of all waste generated by the spill complies with the local, state and federal regulations.</p>
<p>10. Stability and Reactivity</p> <p>Stable</p>
<p>11. Toxicological Information</p> <p>It is including symptoms and epidemic information about human being.</p> <p>Corrosive properties : None Irritant properties (skin, eyes) : None Carcinogenic effects : N/A Mutagenic effects (microbe, chromosome system) : N/A Teratogenic effect : N/A Effect on the reproductive system : N/A</p>

12. Ecological Information		
Degradability	:	The degradability of the product has not been stated.
Ecotoxicity	:	The product is not expected to be hazardous to the environment.
Other adverse effect	:	None.
13. Disposal Considerations		
Dispose of waste and residues in accordance with local authority requirements.		
14. Transport Information		
International regulations		
Road & rail transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI/IATA-DGR): Non dangerous product.		
Proper shipping name : N/A		
Trade name : Lead Free Solder Bar SI100C		
15. Regulatory Information		
R-Phrases		
R 20/21/22	:	Harmful by inhalation, in contact with skin and if swallowed.
R 36/37/38	:	Irritating to the eyes, respiratory system and skin.
S-Phrases		
S 3/9/14	:	Keep in cool, well ventilated place away from oxidizing agents.
S 13	:	Keep away from food, drink and animal food stuff.
S 24/25/26/28	:	Avoid contact with skin or eyes. In case of contact with skin, wash immediately with plenty of water.
S 36/37/39	:	Wear suitable protective clothing, gloves and eyes/face protection.
16. Other Information		
Rev. No. : 00	February 11, 2019	04/MSDS/II/19

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**PRODUCT DATA SHEET
OF
LEAD FREE SOLDER BAR SI100C**

February 11, 2019

Accepted
Name of company : _____
Name of division : _____

ORITECH PTY LTD

33 Production Drive, Alfredton, VIC, 3355

Phone: 1800 444 344, Fax: 03 5334 2322

Email: sales@oritech.com .au

1. Scope

This specification is applied to the bar for your company.

2. Name of product

Name of this solder bar is shown in table 1.

Table 1.

Name of product	LEAD FREE SOLDER BAR SI100C
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3. Material

The principle ingredients of this solder bar are tin and copper.

4. Quality

The chemical composition of this solder is shown in table 2.

Table 2. Chemical composition

Sn	Pb	Cu	Ag	Ni	Ge	Fe	Sb	Bi	Zn	Al	As	Cd
Remainder	0.05 max	0.6-0.8	0.05 max	0.06- 0.08	0.004- 0.006	0.01 Max	0.1 max	0.05 max	0.002 max	0.002 max	0.02 max	0.002 max

- The threshold value of lead (Pb) content described in both of the Lead Free Roadmap of JEITA¹ and in the ROHS Directive is 0,1% in weight.

1) Japan Electronics and Information Technology Industries Association – ETR 7021

5. Shape, dimension, and weight

Shape and dimension of this solder bar is shown in figure 1, and weight are shown in Table 3.

Figure 1. Shape and dimension

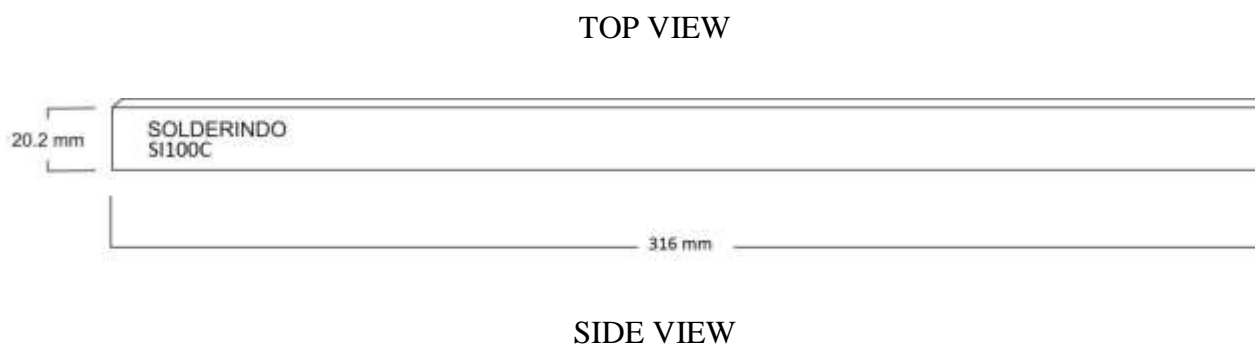


Table 3. Weight

Name of product	Pb Free Solder Bar SI100C
Weight unit/bar	450 grams to 520 grams

6. Inspection

The inspection method of the product is specified in table 4.

Table 4.

	Item	Inspection
Solder	Chemical composition	Optical Emission Spectrometer (OES)
Production	Appearance, shape	Visual Inspection
	Weight	Scale

7. Inspection and data sheet

Following test about the product is to be made on production batch by batch basis. The data sheet of test result is issued based on user's request.

- Chemical composition

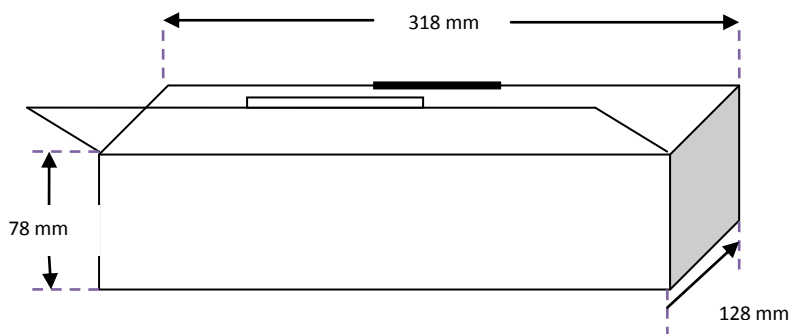
8. Packing and label

8.1 Packing

Each product is packed in a carton box which can contain 20 kgs.

8.2 Information label

Figure 2



The following items are printed on the label attached to the side of the box.

Name of product
Netto
Batch No.
Date of Manufacturer
Part Number

} Label Box

9. Storage Condition

This solder shall be storage in dry place

10. Validity, amendment and abolishment

This specification shall be enforced after approval.

This specification may be amended abolished by both parties consent.