Lead-Free Solder

Lead-free 99c Solder is a 3.2mm solder wire made from a 99c tin-copper alloy suitable for use in applications which must comply BS219 and 5663, listed under the U.K. water fittings bylaws BS219.

TECHNICAL INFORMATION

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name:	Lead-Free 99c Solder
Product Code:	322204170

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses:	Soldering

1.3. Details of the Supplier of the Safety Data Sheet

Company Name:	Atera
Web:	www.atera-products.com

1.4 Emergency Telephone Number

National Health Service (NHS)

NHS England or Scotland: 111

NHS Wales: 0300 0604400

Northern Ireland: Call your local GP

For life-threatening emergencies, call 999 for an ambulance.

Technical data supplied by the manufacturer.

TECHNICAL INFORMATION CONTINUED

SECTION 2: Hazards Identification

2.1. Tin
This substance is not classified as hazardous to health or the environment according to regulation (EC) 1272/2008 [CLP]

2.2. Copper
This substance is not classified as hazardous to health or the environment according to regulation (EC) 1272/2008 [CLP]

SECTION 3: Composition/Information on Ingredients

Ingredients	%	CAS No	Hazard
Tin - Sn	Balance	7440-31-5	-
Copper – Cu	0.45 – 0.9	7440-50-8	-

SECTION 4: First Aid Measures

Description of first aid measures

4.1. Inhalation Bring subject into fresh air
4.2. Ingestion Do not induce vomiting, seek medical advice
4.3. Skin Contact Wash skin thoroughly with soap and water
4.4. Eye Contact Flush eye with running water for at least 15 minutes

SECTION 5: Firefighting Measures

The wire is not considered flammable, however in the event of a fire affecting the material the following measures should be taken.

5.1. Extinguishing Media Dry foam, sand, C02. Special powder for metal fires
5.2. NOT Suitable Media Never use water near any molten metal

SECTION 6: Accidental release measures

6.1. Personal Precautions Not applicable
6.2. Environmental Precautions Keep in dry location away from concentrated acids
6.3. Methods and Material for Clean Up Sweep or pick up

Technical data supplied by the manufacturer.

TECHNICAL INFORMATION CONTINUED

SECTION 7: Handling and Storage

7.1. Storage Conditions Scrap dross disposed of in closed containers

7.2 Handling Precautions Do not inhale vapour/ fumes during soldering. Do not inhale and avoid contact with dresses. Eating, smoking and drinking should be prohibited on the shop floor areas likely to be contaminated with Lead. Good personal hygiene must be maintained always.

SECTION 8: Controls/Personal Protection

Ingredients	Exposure Limit	
	Long-term exposure limit (8hour TWA reference period) mg/m3	Short-term exposure limit (15-minute reference period) mg/m3
Tin - Sn	2	4
Copper – Cu	0.2 (Fume) 1.0 (Dust)	- 2.0 (dust)

8.1. Inhalation Goggles or visor to be worn to protect against molten metals
8.2. Respiratory Protection To be used to avoid inhaling vapor / fumes during soldering
8.3. Skin Protection Gloves and overalls mist be worn

SECTION 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Appearance Silver/Grey coloured wire
Odour None
Melting Point Range 227-228°C
Boiling Point Range Not Applicable
Flash Range Not Applicable
Auto-Flammability Not Applicable
Density 7.00 g/m3
Explosion Limits Not Applicable
Solubility in Water Not Applicable
pH-Value Not Applicable
Viscosity Not Applicable

SECTION 10: Stability and Reactivity

Conditions to Avoid None

Materials to Avoid Avoid water and acids when metal molten

Hazardous Decomposition In contact with concentrated acids, toxic gases may be given off

Technical data supplied by the manufacturer.

TECHNICAL INFORMATION CONTINUED

SECTION 11: Toxicological Information

11.1. Toxicological Data	None identified

SECTION 12: Ecological Information

12.1. Mobility	In the forms sold not considered mobile. Dross will be considered mobile and capable of effecting the environment.
12.2. Persistence and Degradability	All heavy metals are considered persistent
12.3. Biological Oxygen Demand	Not applicable
12.3. Chemical Oxygen Demand	Not applicable
12.2. Aquatic Toxicology	In form sold not applicable. Dross could be taken up by all aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste Disposal	Waste disposal is subject to a Duty of Care and the Waste Management Licensing Regulations. Drosses will be subject to the Hazardous Waste Regulations.

SECTION 14: Transport information

Not subject to the Dangerous Goods Regulations, ADR.

SECTION 15: Regulatory information

15.1. Classification	Not listed
15.2. Risk & Safety Phrases	None Reported

This information does not constitute the user's own assessment of workplace risk as required by H&S legislation.

SECTION 16: Other information

EH40/ 2005	Workplace Exposure Limits
CHIP	Chemical (Hazard Information and Packaging for Supply) Regulations
HSE (COSHH)	Control of Substance Hazardous to Health Regulations

This document also serves as Certificate of Compliance regarding the RoHS Directive.

The information given in this sheet represents the best of our knowledge; it may not be used as a warranty.

Technical data supplied by the manufacturer.