



**SAFETY DATA SHEET**  
**Asahi Lead Free Solid Wire**  
**SCS2**  
*SDS #: EAM3-16/16*  
*Date of Preparation: December 2025*

**SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**1.1 Product Details:**

Product Name : Asahi Lead Free Solid Wire  
Trade Name : Asahi Lead Free Solid Wire SCS2  
Use : Solder wires may be used in automated soldering for electronics and electrical assemblies.

**1.2 Company's Identification:**

Manufacturer's Name and Address : Singapore Asahi Chemical & Solder Industries Pte Ltd  
47 Pandan Road  
Singapore 609288

Telephone : (65) 6262-1616  
Facsimile : (65) 6261-6311

**1.3 Contact Point:**

Designation : Chemist  
Emergency Telephone Number : (65) 6262-1616

**SECTION 2: HAZARD IDENTIFICATION**

**GHS classification**

Acute Toxicity - Oral : Classification 5

**GHS label elements**

Display Image or a Symbol : No display image

**GHS Signal Word**

: Warning

**GHS Hazard Statement**

: H303 May be harmful if swallowed.  
H333 May be harmful if inhaled.

**GHS Precautionary Statement:**

**Prevention**

P202 Do not handle until all safety precautions have been read and

P260 understood.  
 P264 Avoid inhaling dust.  
 P264 Wash hands thoroughly after handling.

**Response**

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage**

P410 Protect from sunlight.

**Disposal**

P501 Dispose of contents or container to appropriate waste site in accordance with local and national regulations.

**Other Hazards which do not result in Classification** : Inhalation of soldering fumes may cause stimulation of throat and nose feeling sick.

**Effect on Environment** : No relevant information found.

**Physical and Hazardous Effect** : No relevant information found.

**SECTION 3: COMPOSITION/INFORMATION ON MATERIAL**

| Chemical Name | CAS No.   | %           | OSHA PEL(mg/m <sup>3</sup> ) | ACGIH TLV (mg/m <sup>3</sup> ) | Other Limits Recommended |
|---------------|-----------|-------------|------------------------------|--------------------------------|--------------------------|
| Tin (Sn)      | 7440-31-5 | 99.78 ± 0.5 | 2.0                          | 2.0                            |                          |
| Copper (Cu)   | 7440-50-8 | 0.2 ± 0.1   | Fumes 0.2<br>Dust/Mist 1     | 0.2<br>1                       |                          |
| Silicon (Si)  | 7440-21-3 | 0.02 ± 0.01 | 10                           | 10                             |                          |
| <b>Total</b>  |           | <b>100</b>  |                              |                                |                          |

**SECTION 4: FIRST AID MEASURES**

Ingestion : Seek medical attention.  
 Eye Contact : Flush eyes with plenty of water immediately for at 15 minutes. Seek medical attention.  
 Skin Contact : Wash thoroughly with soap and warm water.  
 Inhalation : Evacuate to a safe area with fresh air.

**SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing Media : NA  
 Fire Fighting Instructions : NA  
 Special Hazards : NA  
 Unusual Fire and Explosion Hazards : NA

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Leak/Spill : Place into properly labeled waste container and may be sent for recovery following appropriate recovery routes or methods.

## **SECTION 7: HANDLING AND STORAGE**

Handling : Wash hand thoroughly with soap and water prior to eating, drinking or smoking. Do not smoke while soldering. Avoid inhalation of vapors and contact with skin and eyes. Observe good industrial practices.

Storage : Store in a cool environment away from oxidizing agents.

## **SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION**

Engineering Measures : Maintain general or local exhaust ventilation to meet exposure limit requirements.

Personal Protection : Operator should be protected from soldering fumes

PROTECTIVE GLOVES : Impervious rubber

EYE PROTECTION : Safety glasses

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Metallic solid solder wire

Odor : No odor

Solubility in water: : NA

Boiling Point(°C) : NA

Melting Point(°C) : 227-231°C

Vapor Pressure(mm of Hg at 20°C) : NA

Vapour Density (air=1) : NA

Percentage Volatiles (by Volume) : NA

Volatile Organic Compound (VOC) : NA

Evaporation Rate (butyl acetate=1) : NA

Specific Gravity (water=1 at 25°C) : 7.30

Flash Point (°C) : NA

Auto-ignition Temperature(°C) : NE

## **SECTION 10: PHYSICAL HAZARDS (STABILITY AND REACTIVITY)**

Condition to avoid : Unknown.

Incompatibles : Oxidizing materials.

Decomposition products : Unknown.

Hazardous polymerization : Will not occur.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**Carcinogenicity** : Not listed

**Reproductive Effect** : Not listed

**Effects of overexposure (Chronic Effect):**

Breathing of vapors may produce respiratory irritation

**Target Organs** : Respiratory system

**Medical Conditions Generally Aggravated by Exposure:**

Soldering fumes may irritate the eyes.

**SECTION 12: ECOLOGICAL INFORMATION**

Mobility & Bioaccumulation : Non volatile material  
Biodegradability : Non biodegradable  
Aquatic Toxicity : Organic and inorganic tin compounds are toxic to the aquatic ecosystems. Copper inhibits algae growth.

**SECTION 13: DISPOSAL INFORMATION**

Dispose according to federal, state and local regulations. This product is suitable for recovery following appropriate recovery routes or methods. If in doubt, contact Singapore Asahi.

**SECTION 14: TRANSPORT INFORMATION**

**UN Number**

ADR/RID:- IMDG:- IATA-DGR:-

**UN proper shipping name**

ADR/RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA-DGR : Not dangerous goods

**Transport hazard class**

ADR/RID:- IMDG:- IATA-DGR:-

**Packaging group**

ADR/RID:- IMDG:- IATA-DGR:-

**Special shipping instruction**

No data available

**SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture  
EU Regulation (EC) No. 1907/2006 (REACH)

**Substances of very high concern**

None of the components are listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**SECTION 16: OTHER INFORMATION**

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED.

HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

\*optional

NE = Not Established

NA = Not Applicable

PEL = Permissible Exposure Level