



Health	1
Flammability	0
Reactivity	0
Personal Protection	E

SAFETY DATA SHEET
Asahi Solid Solder Wire
Sn96/Cu4
MSDS #: EAM 3-21/3
Date of Preparation: August 2012

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi Solid Solder Wire
 Trade Name : Asahi Solid Solder Wire Sn96/Cu4
 Use : Solder bar 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 understood.
- P260 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 ³)	ACGIH TLV (mg/m ³)	Other Limits Recommended
Tin (Sn)	7440-31-5	96	2.0	2.0	
Copper (Cu)	7440-50-8	4	Fumes 0.2 Dust/Mist 1	0.2 1	
Total		100			

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 coil

Odor : No odor

Solubility in water: : NA

Solidus(°C) : 227 °C

Liquidus(°C) : 353°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) : 7.35

Flash Point (°C) : NA

Auto-ignition Temperature(°C) : NA

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 : NA
T.D.G. Classification : NA
Packing group : NA
Special shipping instructions : NA

SECTION 15: REGULATORY INFORMATION

- a. Proposed classification : Irritant.
- b. Risk phrase
 - R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 - R33 Danger of cumulative effect.
 - R36/37/38 Irritating to the eyes, respiratory system and skin.
 - R48 Danger of serious damage to health by prolonged exposure.
- c. Safety phrase
 - S3/9/14 Keep in a cool, well ventilated place away from oxidizing agents.
 - S13 Keep away from food, drink and animal feeding stuff.
 - S23 Do not breathe fume or vapor.
 - S24/25/26/28 Avoid contact with skin or eyes. In case of contact with skin, rinse immediately with plenty of water. If contact with skin, wash with plenty of water.
 - S35 This material with its container must be disposed of in a safe manner.
 - S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - S44 If you feel unwell, seek medical advice.
 - S46 If swallowed seek medical advice immediately.
 - S51 Use only in well ventilated areas.
 - S59 Refer to manufacturer/supplier for information on recovery/recycling.

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