



SAFETY DATA SHEET
Asahi Solid Solder Wire
Sn99.99

MSDS #: EAM 3 – 25/3
Date of Preparation: April 2021

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi Solid Solder Wire
Trade Name : Asahi Solid Solder Wire Sn99.99
Use : Solder wire may be used for manual soldering or in repair and rework for electrical or electronic 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 TLY (mg/m ³)	Other Limits Recommended
Tin (Sn)	7440-31-5	99.99 – 100.00	2.0	2.0	
Total		100			

SECTION 3: HAZARD IDENTIFICATION

Class of Hazards Chemicals :
 Effect of Acute (severe short term) Exposure: Acute toxicity of pure tin is low.

INHALATION : Long term inhalation of tin or insoluble tin compounds may cause tin dust lungs (stannosis).
 SKIN CONTACT : No data was available.
 EYE CONTACT : No data was available.
 INGESTION : Intake of tin has caused vomiting, diarrhoea and depression of the central nervous system with symptoms like fatigue, headache and ataxia.

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 fumes during electroplating process

PROTECTIVE GLOVES : Impervious rubber

EYE PROTECTION : Safety glasses

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Metallic coil

Odor : No odor

Solubility in water: : NA

Boiling Point(°C) : 600°C

Melting Point(°C) : 232°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

Toxicity data : Triethyltin increased absorption in the body and is highly toxic, Triethyltin and other organic Sn compounds cause brain dysfunction and cerebral fluid retention
Carcinogenicity : Not listed
Reproductive Effect : None
Effects of overexposure (Chronic Effect): Breathing of vapors may produce respiratory irritation. Long term inhalation of tin and insoluble tin compounds may cause tin dust lungs (stannosis). Chronic Inhalation of Sn in the form of fumes or dust particles leads to benign pneumoconiosis
Target Organs : Gastro-intestinal tract, bones, kidneys and the liver
Medical Conditions Generally Aggravated by Exposure : Fumes may irritate the eyes.

SECTION 12: ECOLOGICAL INFORMATION

Mobility & Bioaccumulation : Non volatile material
Biodegradability : Non biodegradable
Aquatic Toxicity : Aquatic toxicity of inorganic tin compounds is comparable to that of lead. Organic tin compounds are toxic to the aquatic ecosystems.

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