



SAFETY DATA SHEET
Asahi Cored Solder Wire
Sn63/Pb37 (Core Flux : CLF5160)
MSDS #: EHC 2 – 32/31
Date of Preparation: August 2025

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi Cored Flux Solder Wire
Trade Name : Asahi Cored Flux Solder Wire Sn63/Pb37 (Core Flux : CLF5160)
Use : Cored flux 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 : Category 4
 Inhalation : Category 4
Carcinogenicity : Category 2
Reproductive Toxicity : Category 2
Specific target organ toxicity (repeated exposure) : Category 2 (nerves, kidney, reproductive system)
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

GHS label elements



GHS Signal Word

: Danger

GHS Hazard Statement:	H302	Harmful if swallowed
	H332	Harmful if inhaled
	H317	May cause an allergic skin reaction
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H351	Suspected of causing cancer
	H361	Suspected of damaging fertility or the unborn child
	H373	May cause damage to organs through prolonged or repeated exposure
	H410	Very toxic to aquatic life with long lasting effects

GHS Precautionary Statement:

Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust, fume, gas, mist, vapours and spray.
P273	Avoid releasing to the environment.
P281	Use personal protective equipment as required.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust, fume, gas, mist and vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves.
P285	In case of inadequate ventilation wear respiratory protection.

Response

P308, P313, P314	IF exposed or concerned: Get medical advice or attention if you feel unwell.
P301, P312, P330	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P391	Collect spillage.
P302, P352	IF ON SKIN: Wash with plenty of soap and water.
P304, P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P333, P313	If skin irritation or rash occurs: Get medical advice or attention.

P342, P311 If experience respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.

Storage

P410 Protect from sunlight.

Disposal

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

SECTION 3: COMPOSITION/INFORMATION ON MATERIAL

Chemical Name	CAS No.	%	OSHA PEL (mg/m ³)	ACGIH TLY (mg/m ³)	Other Limits Recommended
Alloy Composition:					
Tin (Sn)	7440-31-5	61.11 - 62.37	2.0	2.0	
Lead (Pb)	7439-92-1	35.89 - 36.63	0.05	0.05	
Flux Composition:					
Resin	8050-09-7	2.1 – 2.4			
Activators	57-13-6	0.05 – 0.2			
Solvent	57-55-6	0.05 – 0.2			
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 : Flux may burn if soldering is done with a flame.

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 with flux in the center of the coil.
- Odor : Flux has a slight odor.
- Solubility in water: : Soluble (flux)
- Boiling Point(°C) : 600°C (solder); 124°C (flux)
- Melting Point(°C) : 183°C (solder)
- 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) : 8.42 (solder)
- Flash Point (°C) : NE
- Auto-ignition Temperature(°C) : NE

SECTION 10: PHYSICAL HAZARDS (STABILITY AND REACTIVITY)

- Condition to avoid : Moisture and direct contact with flame and excessive heating.
- Incompatibles : Unknown.
- Decomposition products : Unknown.
- Hazardous polymerization : May occur.

SECTION 11: TOXICOLOGICAL INFORMATION

- Toxicity data : Lead is toxic and will cause damage to health if ingestion.
- Carcinogenicity : Not listed.
- Reproductive Effect : Ingestion of lead will cause damage to the male reproductive system.
- Effects of overexposure (Chronic Effect): Breathing of vapors may produce respiratory irritation.
- Target Organs : Respiratory system and reproductive system.

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