



SAFETY DATA SHEET
Asahi Cored Solder Wire
Sn62.0/Pb36.0/Ag2.0 (Core Flux : FC5005)
SDS #: EHC 2 – 11/12
Date of Preparation: June 2018

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi Cored Flux Solder Wire
Trade Name : Asahi Cored Flux Solder Wire Sn62.0/Pb36.0/Ag2.0 (Core Flux : FC5005)
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:

- H303 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 TLV (mg/m ³)	Other Limits Recommended
Alloy Composition:					
Tin (Sn)	7440-31-5	62.0	2.0	2.0	
Lead (Pb)	7439-92-1	36.0	0.05	0.05	
Silver (Ag)	7440-22-4	2.0	Dust/Fumes 0.1 Soluble Compounds 0.01	0.1 0.01	
Flux Composition:					
Rosin	8050-09-7	85-95	-	-	
Organic Acids	Proprietary	5-10			
Others	Proprietary	0-5			
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) : 179°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) : 8.41 (solder)
- Flash Point (°C) : NE
- Auto-ignition Temperature(°C) : NE

SECTION 10: PHYSICAL HAZARDS (STABILITY AND REACTIVITY)

- Condition to avoid : Unknown.
- 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. Soluble silver compounds may affect the liver.
- Carcinogenicity : Dioctyl Phthalate is listed as a cancer suspect agent.
- 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