# MATERIAL SAFETY DATA SHEET



# Asahi Cored Solder Wire Sn63/Pb37 Core Flux: CF-10A MSDS #: EHC 2 - 3/5 Date of Preparation: February 2006

# 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: CF-10A) 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	<ul> <li>Singapore Asahi Chemical &amp; Solder Industries Pte Ltd</li> <li>47 Pandan Road Singapore 609288</li> </ul>
Telephone	: (65) 6262-1616
Facsimile	: (65) 6261-6311

### 1.3 Contact Point:

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

### SECTION 2: COMPOSITION/INFORMATION ON MATERIAL

Chemical Name	CAS No.	%	OSHA PEL(mg/m <sup>3</sup> )	ACGIH TLY (mg/m <sup>3</sup> )	Other Limits Recommended
Alloy Composition:					
Tin (Sn)	7440-31-5	63	2.0	2.0	
Lead (Pb)	7439-92-1	37	0.05	0.05	
Flux		1-3			
Rosin		90			
Organo-Halide		4.5			
Activator					
Lactone Solvent		5.5			
Total		100			

### **SECTION 3: HAZARD IDENTIFICATION**

Effect of Acute (severe short term) Exposure: Ingestion of LEAD alloys is toxic and will induce poisoning.

INHALATION	: Inhalation of soldering fumes may cause irritation to the respiratory tract and may lead to central nervous system effects (drowsiness, dizziness, headaches, nausea, vomiting, headache, joint and muscle pain).
SKIN CONTACT	: NA
EYE CONTACT	: Soldering fumes may cause irritation to the eyes.
INGESTION	: Ingestion of lead will cause damage to health.

## 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 Hazard	s · Flux may burn if soldering i	e done

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

: Maintain general or local exhaust ventilation to meet
exposure limit requirements.
: Operator should be protected from soldering fumes.
: Impervious rubber
: Safety glasses

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

Appearance	: Metallic coil.
Odor	: Slight
Solubility in water:	: Slight (flux)
Boiling Point(°C)	: 600°C (metal); 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)	: 79°C (flux)
Auto-ignition Temperature(°C)	: NE
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### 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.		
Medical Conditions Generally Aggravated by Exposure : Soldering fumes may irritate the			
	eyes.		

### **SECTION 12: ECOLOGICAL INFORMATION**

Mobility & Bioaccumulation	ı :	Non volatile material.
Biodegradability	:	Non biodegradable.
Aquatic Toxicity	:	Lead is toxic and expected to be harmful to aquatic organisms.

# 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 instruction	:	NA

#### **SECTION 15: REGULATORY INFORMATION**

a.	Proposed classi	ification : Harmful
b.	Risk phrase	
	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R36/37/38	Irritating to the eyes, respiratory system and skin.
c.	Safety phrase	
	S23	Do not breath fume or vapor.
	S24/25/26	Avoid contact with skin or eyes. In case of contact with skin,
		rinse immediately with plenty of water.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	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