

SAFETY DATA SHEET Asahi Cored Lead Free Solder Wire

SCS7 (Core Flux : CLF5013) MSDS #: EHC 2 – 7/43 Date of Preparation: June 2018

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 **Product Details:**

Product Name	e : Asahi Cored Flux Lead-Free Solder Wire
Trade Name	: Asahi Cored Flux Lead-Free Solder Wire SCS7 (Core Flux : CLF5013)
Use	: Cored flux solder wire may be used for manual soldering or in repair and
	rework for electrical or electronic assemblies.

1.2 <u>Company's Identification:</u>

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
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1.3 <u>Contact Point:</u>

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

SECTION 2: HAZARD IDENTIFICATION

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

GHS Precautionary Statement:

Prevention	
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	
P301, P312, P330	IF SWALLOWED: Rinse mouth, call a POISON CENTER or doctor/physician if you feel unwell.
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
Tin (Sn)	7440-31-5	REM	2.0	2.0	
Copper (Cu)	7440-50-8	0.7 ± 0.1	Fumes 0.2	0.2	
			Dust/Mist 1	1	
Silicon (Si)	7440-21-3	0.02 ± 0.01	10	10	
Flux % in Core Wire		3			
Flux Composition:					
Resin	8050-09-7	85-95			
Activators	Proprietary	5-10			
Solvent	Proprietary	Rem.			
Total		100			

SECTION 4: FIRST AID MEASURES

Ingestion	: Seek medical attention.
Eye Contact	: Flush eyes with plenty of water immediately for at least 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
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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	: No odor.
Solubility in water:	: Soluble (flux)
Boiling Point(°C)	: NA (solder); 124°C (flux)
Melting Point(°C)	: 227°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)	: 7.30 (solder)
Flash Point (°C)	: NE
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	: Chronic copper poisoning is only known as Wilson's disease (accumulation of copper in liver cells).	
Carcinogenicity	: Not listed	
Reproductive Effect	: Not listed	
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).	
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 ADR/RID:-	IMDG:-	IATA-DGR:-
UN proper s ADR/RID IMDG IATA-DGR	hipping name : Not dangerous goods : Not dangerous goods : Not dangerous goods	
Transport h a ADR/RID:-	azard class IMDG:-	IATA-DGR:-
Packaging g ADR/RID:-	roup IMDG:-	IATA-DGR:-

Special shipping instruction

No data available

SECTION 15: REGULATORY INFORMATION

a. Proposed classification : 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 breathe 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