

SAFETY DATA SHEET
Asahi Cored Lead Free Solder Wire
SCS7 (Core Flux : CLF5160)
MSDS #: EHC 2 – 32/30
Date of Preparation: August 2025

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi Cored Flux Lead-Free Solder Wire
Trade Name : Asahi Cored Flux Lead-Free Solder Wire SCS7 (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 : Classification 4
- Inhalation : Classification 4
Sensitization - Skin : Classification 1
- Respiratory : Classification 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

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.

Other Hazards which do not result in Classification : Intake of tin may cause vomiting, diarrhea and depression of the central nervous system with symptoms like fatigue, headache and ataxia. Inhalation of soldering fumes may cause irritation to the respiratory tract and may lead to central nervous system effects (drowsiness, dizziness, headache and nausea).

Effect on Environment : 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	96.0 - 97.5	2.0	2.0	
Copper (Cu)	7440-50-8	0.6 - 0.8	Fumes 0.2 Dust/Mist 1	0.2 1	
Silicon (Si)	7440-21-3	0.01 - 0.03	10	10	
Rosin	8050-09-7	2.1 – 3.0			
Activators	57-13-6	0.05 – 0.5			
Solvent	57-55-6	0.05 – 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. Protect from sunlight.

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
Vapor 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	: The acute toxicity of tin is low.
Carcinogenicity	: Not listed.
Reproductive Effect	: None.
Germ Cell Mutagenicity	: Not mutagenic.
Inhalation Toxicity	: Inhalation of soldering fumes may cause irritation to the respiratory tract and may lead to central nervous system effects (drowsiness, dizziness, headache and nausea).
Target Organs	: Respiratory system
Skin corrosion/irritation	: None.
Aspiration Hazard	: No information.
Medical Conditions	: Soldering fumes may irritate the eyes.
Generally Aggravated by Exposure	

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:-
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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:-
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Packaging group

ADR/RID:-	IMDG:-	IATA-DGR:-
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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