

SAFETY DATA SHEET Asahi Cored Lead Free Solder Wire

SCS7 (Core Flux : CLF5023) SDS #: EHC 2 – 17/28 Date of Preparation: December 2021

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 : CLF5023)

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 Facsimile	: (65) 6262-1616 : (65) 6261-6311
1.3 <u>Contact Point:</u> Designation Emergency Telephone Number	: Chemist : (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:	
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- 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 precauderstood.	utions have been read and
P261	Avoid breathing dust, fume, gas, m	ist and vapours.
P264	Wash hands thoroughly after handl	-
P270	Do not eat, drink or smoke when us	
P271	Use only outdoors or in a well-vent	
P272	Contaminated work clothing should workplace.	
P280	Wear protective gloves.	
P285	In case of inadequate ventilation we	ear respiratory protection.
Response		
P301, P312, P330	IF SWALLOWED: Rinse mouth, c 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 accordance with local and national	
Other Hazards	Intake of tin may cause vomiting, of central nervous system with sympt and ataxia. Inhalation of soldering the respiratory tract and may lead t	oms like fatigue, headache fumes may cause irritation to
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effects (drowsiness, dizziness, headache and nausea).

Effect on Environment : No relevant information found.

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	0.5 - 0.7	Fumes 0.2	0.2	
			Dust/Mist 1	1	
Silicon (Si)	7440-21-3	0.01 - 0.03	10	10	
Resin	8050-09-7	2.0 - 3.5			
Activators	Proprietary	0.1 – 0.3			
Solvent	Proprietary	0.1 – 0.3			
Total		100			

SECTION 3: COMPOSITION/INFORMATION ON MATERIAL

SECTION 4: FIRST AID MEASURES

0	Seek medical attention.Flush eyes with plenty of water immediately for at 15 minutes. Seek
Skin Contact Inhalation	medical attention.Wash thoroughly with soap and warm water.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

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	inhalation of vapors and contact with skin and eyes. Observe
Storage	good industrial practices.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 PROTECTIVE GLOVES EYE PROTECTION	 Operator should be protected from soldering fumes Impervious rubber 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

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Target Organs: Respiratory systemSkin corrosion/irritation: None.Aspiration Hazard: No information.Medical Conditions: Soldering fumes may irritate the eyes.Generally Aggravated: Soldering fumes may irritate the eyes.

SECTION 12: ECOLOGICAL INFORMATION

Mobility & Bioaccumulation Biodegradability Aquatic Toxicity

- : Non volatile material
- : Non biodegradable
- : 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 sh ADR/RID IMDG IATA-DGR	ipping name : Not dangerous goods : Not dangerous goods : Not dangerous goods	
Transport ha ADR/RID:-	zard class IMDG:-	IATA-DGR:-
Packaging gr ADR/RID:-	oup IMDG:-	IATA-DGR:-
Special shipping instruction		

No data available

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

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Substances of very high concern

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

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