

# SAFETY DATA SHEET **Asahi Lead Free Solder Paste No-Clean MLED01 Series SAC305**

SDS #: EAP2-45/2

Date of Preparation: September 2022

### SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

## 1.1 Product Details:

Product Name: Asahi No Clean Lead Free Solder Paste

Trade Name : SAC305 5-5MLED01

: Solder paste may be used in automated soldering for electrical or electronic Use

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

- Dermal : Classification 5 - Inhalation : Classification 5

Sensitization - Skin : Classification 1 - Respiratory : Classification 1

Skin corrosion/irritation : Classification 3 Serious eye damage/irritation : Classification 2B

#### **GHS** label elements



**GHS Signal Word** : Danger

**GHS Hazard Statement** : H302 Harmful if swallowed

H313 May be harmful in contact with skin

H333 May be harmful if inhaled H316 Causes mild skin irritation H320 Causes eye irritation

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.			
P305, P351, P338	IF IN EYES: Rinse cautiously with water for several minutes.			
	Remove contact lenses, if present and easy to do. Continue rinsing.			
P332, P337, P313	If eye or skin irritation occurs: Get medical advice/attention.			
P333, P313	If skin irritation or rash occurs: Get medical advice/attention.			
P342, P311	If experience respiratory symptoms: Call a POISON CENTER or doctor/physician.			
P363	Wash contaminated clothing before reuse.			
Ctomogo				

## Storage

P410 Protect from sunlight.

## **Disposal**

P501 Dispose of contents or container to appropriate waste site in

accordance with local and national regulations.

not result in Classification

Other Hazards which do: Inhalation of fumes during soldering operation may cause

stimulation of throat and nose feeling sick.

#### SECTION 3: COMPOSITION/INFORMATION ON MATERIAL

<b>Chemical Name</b>	CAS No.	%	OSHA	ACGIH TLY	Other Limits
			PEL(mg/m³)	$(mg/m^3)$	Recommended
Tin (Sn)	7440-31-5	REM	2.0	2.0	
Silver (Ag)	7440-22-4	2.5-2.8	0.01(powder/dust)	0.01(powder/dust)	
Copper (Cu)	7440-50-8	0.4-0.5	Fumes 0.2	0.2	
			Dust/Mist 1	1	
Rosin	8050-09-07	5.0-8.0	NE	NE	
Organic acid	Proprietary	0.5-3.0	NE	NE	
Solvent	Proprietary	2.0-6.0	NE	NE	
Total		100			

#### **SECTION 4: FIRST AID MEASURES**

Ingestion : Seek medical attention.

: Flush eyes with plenty of water immediately for at 15 minutes. Seek Eye Contact

medical attention.

Skin Contact: Wash thoroughly with soap and warm water.

: Evacuate to a safe area with fresh air. Inhalation

#### **SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing Media : Dry chemical, CO<sub>2</sub> etc

Fire Fighting Instructions : Toxic Fumes may be emitted if flux is on fire

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.

: Store in a cool environment away from oxidizing agents. Storage

### SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

: Maintain general or local exhaust ventilation to meet **Engineering Measures** 

exposure limit requirements.

Personal Protection : Operator should be protected from soldering fumes

PROTECTIVE GLOVES : Impervious rubber

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

Appearance : Grayish Cream
Odor : Mild Solvent Odor
Solubility in water: : Negligible by Weight
Boiling Point(°C) : Flux – 124°C; Alloy - NE

Melting Point(°C) : 217°C (alloy)

Vapor Pressure(mm of Hg at 20°C) : NA Vapour Density (air=1) : NA Percentage Volatiles (by Volume) : NA

Volatile Organic Compound (VOC): 4.2% by weight

Evaporation Rate (butyl acetate=1) : NA Flash Point (°C) : >238°C 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 produce respiratory

irritation.

Skin corrosion/irritation : Paste will probably cause mild skin irritation.

Serious Eye Irritation : If paste enters the eye, it will cause eye irritation and even

corneal damage.

Aspiration Hazard : No information.

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 : NE

## **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 shipping name

ADR/RID : Not dangerous goods : Not dangerous goods **IMDG** IATA-DGR : Not dangerous goods

**Transport hazard class** 

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

**Packaging group** 

ADR/RID:-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)

#### Annex XIV - List of substances subject to authorization

None of the components are listed.

## 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