

SAFETY DATA SHEET
Asahi Lead Free Solder Paste
No-Clean MLED01 Series
SAC305
SDS #: EAP2-45/5
Date of Preparation: November 2023

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi No Clean Lead Free Solder Paste

Trade Name : SAC305 3-5MLED01

Use : Solder paste may be used in automated soldering 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
	- 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.
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	: Inhalation of fumes during soldering operation may cause stimulation of throat and nose feeling sick.

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	
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 Dust/Mist 1	0.2 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.
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 : Dry chemical, CO₂ 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.
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

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.

