



SAFETY DATA SHEET
Asahi Lead Free Solder Paste
No-Clean M097 Series
SAC305

SDS #: EAP2-32/18
Date of Preparation: May 2023

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi No Clean Lead Free Solder Paste

Trade Name : SAC305 3 – 5M097

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	2.7	0.01 (powder/dust)	0.01 (powder/dust)	
Copper (Cu)	7440-50-8	0.4	Fumes 0.2 Dust/Mist 1	0.2 1	
Rosin	8050-09-07	5.0-6.0	NE	NE	
Organic acid	Proprietary	0.5-2.0	NE	NE	
Solvent	Proprietary	2.0-4.0	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 : Soldering fumes may irritate the eyes.
Generally Aggravated by Exposure

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

IMDG : Not dangerous goods

IATA-DGR : Not dangerous goods

Transport hazard class

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

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