SAFETY DATA SHEET
Asahi Lead Free Solder Paste
No-Clean MH080 Series
SAC305

SDS #: EAP2-32/21
Date of Preparation: January 2025

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi No Clean Lead Free Solder Paste
Trade Name : SAC305 4 – 5MH080
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	
Carboxylic acid	68937-72-4	0.5-2.0	NE	NE	
Solvent	-	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, CO_2 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.

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