

**SAFETY DATA SHEET**  
**Asahi No Clean Paste Flux**  
**PF5**

*SDS #: EAP1-11/4*  
*Date of Preparation: July 2020*

**SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**1.1 Product Details:**

Product Name : Asahi No Clean Paste Flux  
Trade Name : Paste Flux PF5  
Use : Paste flux may be used in preparing solder paste.

**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
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

**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 (ppm)	ACGIH TLV (ppm)	Other Limits Recommended
Rosin	8050-09-07	20-50	-	-	-
Activators	617-48-1	0-10	-	-	-
Solvents	107-21-1	30-50	-	-	-
<b>Total</b>		<b>100</b>			

### 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<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.  
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  
EYE PROTECTION : Safety glasses

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: light yellow smooth opaque cream
Odor	: mild solvent odor
Solubility in water:	: insoluble
Boiling Point(°C)	: 124°C
Melting Point(°C)	: 80°C
Viscosity (kcPs at 25°C)	: 320 +/- 15%
Vapor Pressure(mm of Hg at 20°C)	: NE
Vapor Density (air=1)	: NA
Percentage Volatiles (by Volume)	: NE
Volatile Organic Compound (VOC)	: 5.2%
Evaporation Rate (butyl acetate=1)	: NE
Specific Gravity (water=1 at 25°C)	: 0.970 ± 2% @ 25°C
Flash Point (°C)	: 238°C by COC
Lower Explosive Limit	: NE
Upper Explosive Limit	: 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 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 environment regulations/legislation specific for the substance or mixture  
Notification status

AICS:           On the inventory, or in compliance with the inventory.

DSL:            All components of this product are on the Canadian DSL.

ENCS:          On the inventory, or in compliance with the inventory.

IECSC:                 On the inventory, or in compliance with the inventory.

ISHL:          On the inventory, or in compliance with the inventory.

Isopropyl alcohol is listed in the catalog of the following countries:

Australia (AICS)

Canada (DSL)

China (IECSC)

European Union (EINECS)

Japan (ENCS)

South Korea (KECI)

New Zealand Philippines (PICCS).

## **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