

Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Product Name : FLUX, For Lead Free Solder Paste Use(Sn-Ag-Cu)

Product Identifier : PF606-P • PF607-P • PF608-P • PF609-P • PF610-P • PF614-P • PF629-P • PF632-P • PF636-P • PF637-P • PF638-P • PF639-P • PF640-P • (PW • P-B • P25 • P26 • P27 • P58 • WS-615)

MANUFACTURER:
SHENMAO TECHNOLOGY INC.
Add: No.12-1 Gongye 2nd Rd.,
Guanyin industrial area,
Taoyuan County 328, Taiwan
Tel: (886)3-416-0177 Fax: (886)3-416-0133

BRANCHES:
Please refer to our website.
Website: <http://www.shenmao.com>

SOLD BY:
SMTSOLDERPASTE.COM An Affiliate of Manncorp
MANNCORP (East)
2845 Terwood Road, Willow Grove, PA 19090
Tel: 215.830.1200 Fax: 215.830.1206
MANNCORP (West)
2845 Terwood Road, Willow Grove, PA 19090
Tel: 215.830.1200 Fax: 215.830.1206
sales@smtsolderpaste.com • www.smtsolderpaste.com

2. HAZARDS IDENTIFICATION

Hazard classification: Specific organ toxic matter • The repetition exposes level 2 • Water environment toxic substances (acute toxicity) Level 3 • Acute toxic substance (inhalation) Level 4 • Acute toxic substances (swallow) Level 5



Indication content:

Symbols: Health hazard, Exclamation mark

Warnings • Warning

1. Toxic to aquatic organisms
 2. Toxic by inhalation
 3. Toxic if swallowed
 4. Long-term exposition possibly to organ injury
- measure • The body thinks not comfortably • Inquires of the medical service

Other hazard:

3. COMPOSITION, INFORMATION OR INGREDIENT

Components-Chemical Name	wt. %	CAS No.
Modified Rosin	4.5~6.5	8050-09-7
Diethylene Glycol Monoethyl Ether	4.5~6.5	112-59-4
Tin (Sn)	81.5~87.5	7440-31-5
Silver (Ag)	0.1~5.0	7440-22-4
Copper (Cu)	0.01~4.0	7440-50-8

4. FIRST AID MEASURES

EYE CONTACT:

Gently rinse the affected eyes with clean water for at least 15 minutes.
Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

SKIN CONTACT :

Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

INHALATION :

Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel.

INGESTION :

Give the person one or two glasses of water or solution of salt, try to get the victim to vomit.
Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

5 、 FIRE FIGHTING MEASURES**EXTINGUISH MEDIA :**

Use alcohol resistant foam, carbon dioxide or dry chemical extinguishing agents.

FIRE-FIGHTING INSTRUCTIONS :

Shut off fuel to fire if possible to do so without hazard.
Evacuate area and fight fire from a safe distance.
Apply water from a safe distance to cool and protect surrounding area.
Firefighters should wear proper protective equipment.

FLASH POINT : Not applicable

EXPLOSION LIMIT : Not available

6 、 ACCIDENTAL RELEASE MEASURES

Shut out all sources of ignition; No flare, smoking or flames in area.

Wear proper protective equipment.

For spills, wipe and scrape away with cloth or paper, take up and store in a sealed container.

7 、 HANDLING AND STORAGE**HANDLING :**

Do not use fire near storage area.
Wear proper protective equipment.

STORAGE :

Keep away from heat or sunlight.
Store in a cool (0-10°C) place in closed containers.

8 、 EXPOSURE CONTROLS AND PERSONAL PROTECTION**ENGINEERING MEASURES :**

Use only with adequate ventilation and in closed systems.
Make available emergency shower and eye wash in the work area.

EXPOSURE GUIDELINES :

ACGIH TLV: 0.1mg/m³ (Silver)
2mg/m³ (Tin)

PROTECTIVE EQUIPMENT :

RESPIRATORY PROTECTION : Industrial canister gas masks.(Heating)

EYE PROTECTION : Safety goggles.

HAND, SKIN AND BODY PROTECTION : Rubber gloves.

Selection of specific items such as boots, apron or full-body suit will depend on operation.

9 、 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Gray colored paste
BOILING POINT	>200°C (Flux)
VAPOR PRESSURE	<0.01mmHg(20°C)
MELTING POINT	Not available
SPECIFIC GRAVITY	Not available
SOLUBILITY (IN WATER)	Almost Insoluble

10 、 STABILITY AND REACTIVITY**CHEMICAL STABILITY :**

Stable, hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS :

Strong oxidizing agents, strong bases and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS :

Carbon oxide on burning.

HAZARDOUS POLYMERIZATION :

Will not occur.

11 、 TOXICOLOGICAL INFORMATION**CORROSIVE AND IRRITANT PROPERTIES :** Not available**ALLERGENIC AND SENSITIZING EFFECTS :** Not available**ACUTE TOXICITY :** Not available**SUB-ACUTE TOXICITY :** Not available**CHRONIC TOXICITY :** Not available**CARCINOGENIC EFFECTS :** Not available**MUTAGENIC EFFECTS :** Not available**EFFECTS ON THE REPRODUCTIVE SYSTEM :** Not available**TERATOGENIC EFFECTS :** Not available**12 、 ECOLOGICAL INFORMATION****BIODEGRADABILITY :** Not available**BIOACCUMULATION :** Not available**FISH TOXICITY :** Not available**OTHER INFORMATION :** Not available

13 ▾ DISPOSAL CONSIDERATIONS

Dispose in compliance with local regulations.

Do not discharge into the environment.

14 ▾ TRANSPORT INFORMATION

UN CLASS : Not applicable

UN NUMBER : Not applicable

Keep in a cool(0-10°C)place.

Follow all regulations in your country.

15 ▾ REGULATORY INFORMATION

APAN STATUS

EXISTING CHEMICAL SUBSTANCES(MITI) : Listed.

HCS Classification

Irritating substance.

Sensitizing substance.

Target organ effects.

US STATUS

TSCA INVENTORY : All ingredients listed.

State Regulation

Rhode Island RTK hazardous substances: Tin

Florida: Tin; Sliver; M-Pyrrol; Rosin

Minnesota: Tin; Silver; M-Pyrrol; Rosin

Michigan critical material: Silver

Massachusetts RTK: Tin; Sliver; Copper; M-Pyrrol

New Jersey spill list: Tin

California Proposition 65

Chemicals known to cause cancer:

WARNING: This product may contain a chemical in trace amounts known to the State of California to cause cancer.

Cadmium:7440-43-9

Nickel:7440-02-0

Cadmium:7440-43-9

INTERNATIONAL REGULATIONS

EINECS: No available.

DSCL (EEC):

36/38-Irritationg to eyes and skin.

42/43-Msy cause sensitization by inhalation and skin contact.

International Lists:

Australia (NICNAS): All compounds

Korea (TCCL): All compounds

Philippines (RA6969): All compounds

LABELING ACCORDING TO EEC DIRECTIVES :

HAZARD SYMBOL : T-Toxic

RISK PHRASES : R 61-62-20/22-33

SAFETY ADVICES : S 53-45

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

16 、 OTHER INFORMATION

REFERENCE:			
AIR PRODUCTS MSDS 、 INTERNATIONAL MARITIME DANGEROUS GOODS CODE			
HAZARDOUS	NFPA	HMIS	LEVEL : 0~4 : From least to serious
HEALTH	2	2	NFPA : National Fire protection Association rating identifies hazards during a fire emergency.
FLAMMABILITY	1	1	
REACTIVITY	0	0	HMIS : Hazardous Materials Identification System rating applies to process as packaged.
COUNTRY OF ORIGIN: TAIWAN, R.O.C			
PREPARED BY	SHENMAO TECHNOLOGY INC.		
	No.12-1 Gongye 2nd Rd., Guanyin Industrial Area, Taoyuan County 328, Taiwan		
	TEL : +886-3-416-0177	FAX	+886-3-416-0133
ISSUED	Engineer	NAME	Alan Huang
REVISED DATE: 2010/1/26	EDITION	3	

The information herein is given in good faith, but no warranty, express or implied, is made.