

SMTSOLDERPASTE.COM

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Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Product Name : Water-Soluble Lead Free Solder Paste

Product Identifier : PF606-PW • PF606-PWA • PF610-PW • PF610-PWA • PF616-PW • PF629-PW

Suggest Purpose: SMT Solder Application

MANUFACTURER:
SHENMAO TECHNOLOGY INC.
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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

1. Toxic to aquatic organisms
2. Toxic by inhalation
3. Toxic if swallowed
4. Long-term exposition possibly to organ injury
5. Avoid skin or eye contact • Contact emergency medical services immediately if above conditions are experienced

Other hazard:

3. COMPOSITION, INFORMATION OR INGREDIENT

Components-Chemical Name	CAS No.	Hazards composition (wt.%)
Organic amine	68038-01-7	3.2-5.7
Surfactant	N.E.	1.4-2.7
Activator	N.E.	0.33-3.3
Tin (Sn)	7440-31-5	81.5~87.5
Silver (Ag)	7440-22-4	0.2~4.3
Copper (Cu)	7440-50-8	0.42~0.82

4. FIRST AID MEASURES

First aid method in the different exposed way:	
Inhalation	<ol style="list-style-type: none">1. Move the patient to the fresh air location immediately.2. If patient stops breathing, administer CPR and call 911.3. Keep the patient warm and at rest.4. Seek immediate medical treatment.
Skin contact	<ol style="list-style-type: none">1. Clean the skin immediately. Use soap or neutral cleanser with water.2. Remove affected clothing.3. If skin remains irritated, seek medical treatment.
Eye contact	<ol style="list-style-type: none">1. Flush the eye out with clean water immediately.2. If irritation persists, seek medical treatment immediately.
Swallowing	<ol style="list-style-type: none">1. Drink plenty of water.2. Induce vomiting.3. Do not induce vomiting if patient is incoherent.4. Seek immediate medical treatment if symptoms persist.
Most important symptom and harm effect: Irritation feeling	
Protection to first-aid personnel: Should wear the level C protection equipment in the safe area implementation first aid.	

5. FIRE FIGHTING MEASURES

Applicable fire-extinguishing: Water.
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6. ACCIDENTAL RELEASE MEASURES

1. Shut out all sources of ignition; No flare, smoking or flames in area.
2. Wear proper protective chemically resistant clothing.
3. For spills, wipe & scrape away with cloth or paper, take up solder paste & store in a sealed container.

7. HANDLING AND STORAGE

Handling:

1. Tell workers about the danger of this material avoid sucking dust, smoked smoke or ingestion lead.
2. Use the appropriate protective device and enough ventilation.
3. Avoid producing the dust.
4. Formulation breathes protection flow chart and training, maintenance and inspection regularly

Storage:

1. Keep away from heat or sunlight.
2. Store in a cool (0-10 °C) place in closed containers.
3. Store in a cool, dry and well ventilated area.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering control:

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

CONTROL PARAMETER

	TWA	STEL	CEILING	BEIs
Tin	2 mg/m ³	4 mg/m ³	—	—
Silver	0.01 mg/m ³	0.03 mg/m ³	—	—

Personal protection device:

Breath protection:

- 0.5 mg/m³: Dustproof breathing mask.
- 1.25 mg/m³: 1. Dust proof breathing mask. 2. Air supply type breathing mask.
- 2.5 mg/m³: 1. Dustproof and air filter breathing mask. 2. Continuous air supply type breathing mask.
- 50 mg/m³: 1. Contain high performance filter and air filter breathing mask. 2. Continuous air supply type breathing mask.

Unknown consistency: Continuous air supply type breathing mask (with SCBA).

Escape: 1. Contain high performance filter and air filter breathing mask.
2. Continuous air supply type breathing mask.

Hand protection: Rubber or plastic gloves.

Eye protection: 1. Safety goggles

Skin and body protection: Apron, long sleeve clothes.

9. PHYSICS AND CHEMICAL PROPERTY

Appearance:	Gray paste
Boiling point :	>200°C (Flux)
Vapor Pressure:	<0.01mmHg(20°C)
Melting Point:	217~226°C
Odor :	Mild characteristic odor
Solubility:	Flux is water soluble

10. STABILITY AND REACTIVITY

Stable: Stable under the normal state
Possible dangerous reactions may be caused by: <ol style="list-style-type: none">1. Metal tin and turpentine contact will produce fire and explode.2. Plastics, rubber.3. Acid, soda, oxide, sulphur, halogens.4. When the tin powder mixed with sodium peroxide, contact with the moisture will produces the fire; contact the carbon dioxide or ammonium nitrate (higher than 200°C) will explode.5. Carbon tetrachloride Tetrachloromethane (moisture existence), halide, cupric nitrate solution, potassium peroxide.6. With oxygen, water and weak organic acid will corrode the lead.
Avoid state: The powder state will be oxidized in the air.
Avoid contact with: <ol style="list-style-type: none">1. Metal tin and turpentine.2. Plastics, rubber.3. Acid, soda, oxide, sulphur, halogens.4. Tin powder mixed with sodium peroxide, carbon dioxide or ammonium nitrate (higher than 200°C).5. Carbon tetrachloride Tetrachloromethane (in moisture existence), halide, cupric nitrate solution, potassium peroxide.6. Hydrogen peroxide, sodium azide, oxidant, chlorine trifluoride.
Dangerous products of decomposition: —

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11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY:
NTP: Yes – ethylene oxide (Class 2A)
OSHA: Yes – ethylene oxide (listed)
IARC: Yes – ethylene oxide (Group 2A)
LD50: Not established
LC50: Not established
Chronic Effects: Fumes and dust produced by this product may be hazardous in case of ingestion, of inhalation.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available
Biodegradability: Not established
Aquatic Toxicity: Not established

13. DISCARD DISPOSAL METHOD

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Do not discharge into the environment.
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14. TRANSPORT INFORMATION

DOT Classification:	Not a DOT controlled material (United States)
IMO/IMDG Classification:	Not controlled under IMDG
ADR/RID Classification:	Not controlled under ADR (Europe)
ICAO/IATA Classification:	Not controlled under IATA

Follow all regulations in your country

15. REGULATION MATERIALS

<ol style="list-style-type: none">1. The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations under 29CFR 1910.1200 ET. SEQ.2. The information in this Material Safety Data Sheet meets the requirements of the EU under Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (CHIP 2) Regulation 6.
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3. This product has been classified in accordance with the hazard criteria of the Commission Directive 91/155/EEC and EH40.
4. This product has been classified using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace GBZ2-2002.
5. This product has been classified in accordance with hazard criteria of the Canadian Controlled Products Regulation (CPR).
6. All ingredients are listed on the EPA TSCA Inventory.
7. DSCCL (EEC): 36/38 - Irritating to eyes and skin. 43 – May cause sensitization by skin contact.

16. OTHER INFORMATION

Reference	Council of Labor Affairs Material Safety Data Sheets Database	
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