







# MATERIAL SAFETY DATASHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION




Product name: Lead Free Solder Paste
Other name:
Product identifier: PF606、PF607、PF608、PF609、PF610、PF614、PF629、PF632、PF636、PF637、PF638、PF639、PF640、PF669(P、PW、P-B、P25、P26、P27、P30、P58、P107、P110、PI-21、PI-22、WS-615、XP26)
Suggest purpose:
Manufacturer: NeVo®
Address: Škrobárenská 506/2, 617 00 BRNO, CZECH REPUBLIC
TEL: +49-152-5106-5427
Website: <a href="http://www.nevo-solder.com">http://www.nevo-solder.com</a>

## 2. HAZARDS IDENTIFICATION

<p>2.1 Classification of the substance or mixture</p> <p>Classification according to Regulation (EC)No 1272/2008</p>
<p> GHS08 health hazard</p> <p>H372. Causes damage to organs</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
<p> GHS07</p> <p>Acute Tox. 4 H302 Harmful if swallowed.</p> <p>Acute Tox. 4 H312 Harmful in contact with skin.</p> <p>Acute Tox. 4 H332 Harmful if inhaled.</p>
<p><b>2.2 Label elements</b></p> <p><b>Labelling according to Regulation (EC) No 1272/2008</b></p> <p>The product is classified and labelled according to the CLP regulation.</p> <p><b>Hazard pictograms</b></p> <p> </p> <p>GHS07 GHS08</p> <p><b>Signal word:</b> Warning</p>

### 3. COMPOSITION, INFORMATION OR INGREDIENT

Mixture :

Components-Chemical Name :	wt. %	
Tin	81.5~87.5	CAS:7440-31-5 EINECS: 231-141-8
Rosin  Skin Sens. 1, H317	4.5-6.5	--
SILVER (Ag)	0.1~5.0	CAS: 7440-22-4 EINECS: 231-131-3
COPPER (Cu)	0~4.0	CAS: 7440-50-8 EINECS: 231-159-6
ANTIMONY (Sb)	--	CAS: 7440-36-0 EINECS: 231-146-5
BISMUTH (Bi)	--	CAS: 7440-69-9 EINECS: 231-177-4
Lead  Carc. 2, H351; Repr. 1B, H360; STOT RE 2, H373  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	--	CAS:7439-92-1 EINECS: 231-100-4

### 4. FIRST AID MEASURES

First aid method in the different exposed way:	
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.
The most important symptoms and hazardous effect: The protection to first-aid: Should wear the level C protection equipment in the safe area implementation first aid.	
Notes to physicians: If the patient swallows, consideration gastric lavage and bowel movement.	

## 5. FIRE-FIGHTING MEASURES

### EXTINGUISH MEDIA:

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

### FIRE-FIGHTING INSTRUCTIONS:

1. Move the container out to the safe area.
2. Cooling storing or container expose in a fire scene with waste

Special equipment for the protection of firefighters: —

## 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℃ ) 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/m<sup>3</sup> (Silver) 0.15mg/m<sup>3</sup> (Lead)  
2mg/m<sup>3</sup> (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. PHYSICS AND CHEMICAL PROPERTY

Appearance:	Gray coloured paste
BOILING POINT	>200°C (Flux)
FLASH POINT	>200□ (Flux)
VAPOR PRESSURE:	<0.01mmHg(20□)
MELTING POINT	Not available
SPECIFIC GRAVITY	Not available
SOLUBILITY (IN WATER)	Almost Insoluble

## 10. STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b> Stable, hazardous polymerization will not occur.
<b>INCOMPATIBILITY WITH OTHER MATERIALS:</b> Strong oxidizing agents, strong bases and strong acids.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Carbon oxide on burning.
<b>HAZARDOUS POLYMERIZATION:</b> 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: Animal drink water containing 0.18mg/L of lead may get lead poisoning. Rats ingested the 0.005mg/Kg of lead showed evidence of CMS disturbances.
CARCINOGENIC EFFECTS: Not available
MUTAGENIC EFFECTS: Not available
EFFECTS ON THE REPRODUCTIVE SYSTEM: Not available
TERATOGENIC EFFECTS: Not available

**12. ECOLOGICAL INFORMATION**

Ecotoxicity: —
Persistent and biodegradable: —
Bio-accumulative potential: —
Mobility in soil: —
Other adverse effects: —

**13. DISPOSAL CONSIDERATIONS**

Methods of waste disposal: Bury with qualified hygiene.
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**14. TRANSPORTS INFORMATION**

UN No.: —
UN Proper shipping name: —
Transportation hazard classification: —
Packing group: —
Marine pollutant (Yes/No): —
Specific transport measures and precautionary conditions: —

**15. REGULATORY INFORMATION**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b> All ingredients are listed on the following Government Inventories:
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China: Inventory of Existing Chemical Substances in China (IECSC)  
 Korea: Korea Existing Chemicals List (ECL)  
 Europe: European Inventory of Existing Commercial Chemical Substances (EINECS)  
 Japan: Inventory of Existing and New Chemical Substances (ENCS)  
 Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS)  
 USA: TSCA (Toxic Substances Control Act) TSCA Inventory of Chemical Substances

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS07 GHS08

**Signal word** Warning

#### Hazard-determining components of labelling:

H372. Causes damage to organs

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P280 Wear protective gloves / eye protection.

P270 Do not eat, drink or smoke when using this product.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P402 Store in a dry place.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Directive 2012/18/EU

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION

Reference	Occupational Safety and Health Administration , Ministry Of Labor, GHS inquiry system	
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