



SAFETY DATA SHEET

Lead-Free Solder Paste SnAgCu



Rev 2016/02/23 Version 02

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Lead-Free Solder Paste
Other name: N/A
Product identifier: PF606, PF607, PF608, PF609, PF610, PF614, PF623, PF629, PF632, PF636, PF637, PF638, PF639, PF640, PF669 (P, PW, P25, P26, P27, P30, P32, P133, P214, P214L, PW209L, XP26, XP36)
Suggest purpose: All purpose for lead-free solder paste
Manufacturer: NeVo® GmbH
Address: Škrobářenská 506/2, 617 00 Brno, Czech Republic
Telephone: +49-152-5106-5427
Website: http://www.nevo-solder.com/

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008
 GHS08 Health hazard H372: Causes damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long-lasting effects.
 GHS07 Harmful H302: Harmful if swallowed (Acute Toxicity category 4). H312: Harmful in contact with skin (Acute Toxicity category 4). H332: Harmful if inhaled (Acute Toxicity category 4).
2.2 Label elements 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

3. COMPOSITION, INFORMATION OR INGREDIENT

Mixture :

Components-Chemical Name:	wt. %	
Tin (Sn)	81.5-87.5	CAS:7440-31-5 EINECS: 231-141-8
Rosin  Skin sensitization, category 1 H317: May cause an allergic skin reaction	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

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 personnel from exposed area to fresh air immediately. If not breathing, give artificial respiration or oxygen.
INGESTION	Rinse mouth. Do NOT induce vomiting. 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 personnel: Should wear the protection equipment of level C to give first aid in the safe area.	
Notes to physicians: If a patient swallowed the paste, consideration of gastric lavage and bowel movement is a required measure.	

5. FIRE-FIGHTING MEASURES

EXTINGUISH MEDIA: Use alcohol resistant foam, carbon dioxide or dry chemical extinguishing agents.
FIRE-FIGHTING INSTRUCTIONS: 1. Move the container away from fire scene if it can be done without risk. 2. Cool down the container with water spray until the fire is extinguished

Special equipment for the protection of firefighters: ---

6. ACCIDENTAL RELEASE MEASURES

Shut out all sources of ignition. No flares, smoking or flames in the area.

Wear proper protective equipment.

In case of spills, wipe and scrape them away with cloth or paper, take up and store in a sealed container.

7. HANDLING AND STORAGE

HANDLING:

Keep away from any sources of ignition.

Wear proper protective equipment.

STORAGE:

Keep away from heat or sunlight.

Keep away from any acids and oxidants.

Store at 0-10°C in closed containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES:

Use only with adequate ventilation and in closed systems.

Make emergency shower and eye wash available in the work area.

EXPOSURE GUIDELINES:

ACGIH TLV: 0.1mg/m³ (Silver)

2mg/m³ (Tin)

PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: Industrial canister gas masks.

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 paste
BOILING POINT	>200°C (Flux)
FLASH POINT	Not available
VAPOR PRESSURE	<0.01mmHg(20°C)

MELTING POINT	Depends on Alloys
SPECIFIC GRAVITY	4-5g/cm ³ for paste, 0.5-1.5g/cm ³ for flux
SOLUBILITY (IN WATER)	Almost Insoluble

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable, hazardous polymerization will not occur.
INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidants, 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: H302: Harmful if swallowed (Acute Toxicity category 4). H312: Harmful in contact with skin (Acute Toxicity category 4). H332: Harmful if inhaled (Acute Toxicity category 4).
SUB-ACUTE TOXICITY: Not available
CHRONIC TOXICITY: Animal drinking water containing 0.18mg/l of lead may get lead poisoning. Rats ingested 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.

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

All ingredients are listed on the following Government Inventories:

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 statements:

H302: Harmful if swallowed (Acute Toxicity category 4).

H312: Harmful in contact with skin (Acute Toxicity category 4).

H332: Harmful if inhaled (Acute Toxicity category 4).

H372: Causes damage to organs through prolonged or repeated exposure.

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 person 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 Labour, GHS inquiry system
Prepared By	Department: NeVo®
	Address: NeVo®, Škrobárenská 506/2, 617 00 Brno, Czech Republic
	Telephone: +49-152-5106-5427
Author	Daniel Pospíšil
Issued date	2016/02/23

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