



Safety Data Sheet

NANO Paste, Silver Solder Paste w/ Dispensing Syringe

Dated: March 22, 2023

1. Identification of the substance or mixture and of the supplier

1.1. Product identifier

Product Name: NANO Paste, Silver Solder Paste w/ Dispensing Syringe

1.2. Relevant identified uses of the substance or mixture and uses advised against

For Soldering Operations

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier: Bench Basics

Address: 7601 SW 34th, OKC, OK 73179

1.4. Emergency telephone number

Contact Detail

Emergency Contact Number: 4057454054

Product Code:

BB-856, BB-865, BB-870, BB-875

2. Hazards identification

2.1 Classification of the substance or mixture

This product does not meet the criteria for classification in any hazard class according to US Consumer product safety commissions guideline at 16 CFR 1500.135 and the criteria outlined in ASTM D-4236.

2.2. Label elements

Pictogram: None needed according to classification criteria.

Signal word: Danger

Hazard Statement:

H360: May damage fertility or the unborn child.

Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+311: IF exposed or concerned: Get medical advice/ attention.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards:

Not classified as hazardous as supplied.

3. Composition/information on ingredients

3.1. Description of Material

The components are not hazardous or are below required disclosure limits.

Ingredients	CAS Number	%(W/W)
Silver	7440-22-4	55-85%
Zinc	7440-66-6	
Copper	7440-50-8	
Boric acid	10043-35-3	0.5 – 5%
Potassium fluoride	7789-23-3	0.5 – 5%



Potassium tetraborate	1332-77-0	0.5 – 5%
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4. Description of first aid measures

Eye contact:

Wash the eyes with plenty water, specially the under the eyelid. Get medical assistance.

Skin contact:

Wash the affected zone with plenty water and soap.

Ingestion:

If conscious only: Rinse mouth with water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions

Inhalation:

Obtain fresh air. See medical attention if symptoms persist or develop after exposure ends.

Thermal burns:

Rinse area thoroughly with cold water. Cover with a clean bandage and obtain appropriate medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

No information on significant adverse effects

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

Water Spray, Water Jet, Dry Powder, Foam, Carbon Dioxide, or any other.

Special hazards arising from the substance or mixture:

No unusual fire or explosion hazards are anticipated.

Advice for firefighters

Wear Self Contained Breathing Apparatus and full protective equipment for fire response. Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool. Contaminated equipment should be rinsed thoroughly with water before returning to service.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel who have received basic chemical safety training can generally handle small-scale releases. For small releases, the minimum Personal Protective Equipment should be rubber gloves and, splash goggles or safety glasses. Use caution during clean-up; contaminated floors and items may be slippery. NOTE: Allow heated material to cool before attempting to clean.

6.2. Environmental precautions

Avoid response actions that can cause a release of a significant amount of the substance (1 liter or more) into the environment.

6.3. Methods and material for containment and cleaning up

Large spillages should be contained and pumped receiving vessel. Small spillages should be absorbed on inert absorbent. For disposal methods refer to Section 13.

7. Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of product or its fumes. Use in



well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.

7.2. Conditions for safe storage, including any incompatibilities

Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals (See Section 10, Stability and Reactivity). Empty containers may contain residual material; therefore, empty containers should be handled with care. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

7.3. Specific end use(s)

For Soldering Operations

8. Exposure controls/personal protection

8.1 Control parameters

None required

8.2. Exposure controls

Engineering Control:

Use this product in well-ventilated environment. Safety showers, eye wash stations, and hand-washing equipment should be available.

Respiratory protection:

None required under normal conditions of use. Use NIOSH approved respirators if ventilation is inadequate to control fumes. For situations in which significant amounts of fumes could be generated, wear an air-purifying respirator with a high-efficiency particulate filter.

Eye Protection:

Splash goggles or safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate state, local, or national standards.

Skin:

Use a body protection appropriate to task (e.g., lab coat, coveralls, or apron). Care should be taken to select protection for potentially exposed areas when prolonged exposure to fumes could occur in occupational settings.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Semi-solid.
Color:	Silver
Odor:	Odorless
Molecular Formula:	Mixture
pH:	Not Applicable
Solvent Solubility:	Insoluble
Melting point/freezing point:	35 – 80 °C (85 – 176 °F).
Boiling Point:	230 °C (446 °F)
Flash Point:	>93.4 °C (200 °F)
Auto-ignition	Not flammable.

9.2. Other information

Other information: None.

10. Stability and reactivity

10.1. Reactivity

No reactivity hazard is expected.



10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Will not polymerize.

10.4. Conditions to avoid

Avoid contact with acid minerals, heat and fire.

10.5. Incompatible materials

This product is not compatible with strong oxidizing agents, strong acids, strong bases, amines, combustible material, and peroxides.

10.6. Hazardous decomposition products

Heating of this product can release silver, copper and zinc oxides.

11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity:

- Acute Toxicity Estimate (Oral) > 2000 mg//kg
- Acute Toxicity Estimate (Dermal) > 2500 mg/kg
- Acute Toxicity Estimate (Inhalation) > 5 mg/L (Dust and Mist)

Skin corrosion / irritation:

May cause irritation on prolonged or repeated contact.

Serious eye damage / irritation:

May cause irritation on prolonged or repeated contact.

Inhalation:

Particulates and fumes of this product can cause mild to severe nasal irritation.

Aspiration hazard:

Although not anticipated to be a significant route of occupational over-exposures, ingestion of this product may irritate the mouth, throat, and other contaminated tissue and cause other adverse health effects.

12. Ecological information

Overview:

Alloys of silver, copper and zinc present no threat to the environment when they occur in the size and form associated with this product. In ionic form, silver compounds can be highly toxic to the aquatic environment.

12.1. Toxicity

No long term effects expected.

12.2. Persistence and degradability

Silver, copper and zinc occur naturally in the environment. It is anticipated that they will slowly react with water, salts, and other compounds found naturally in the environment over prolonged periods of time.

12.3. Bioaccumulative potential

The components of this product are not anticipated to bioaccumulate in any significant quantities.

12.4. Mobility in soil

Alloys in the product's form are not mobile in the environment.

12.5. Results of PBT and PvB assessment

No data available



12.6. Other adverse effects

No known significant effects or critical hazards.

13. Disposal considerations

13.1. Waste Disposal Recommendations:

Waste handling recommendations:

Prepare, transport, treat, store, and dispose of waste product according to all applicable local, U.S. State and U.S. Federal regulations, or the applicable Canadian standards.

Metal reclamation:

When applicable and practical, users of the product may wish to utilize metal reclamation services for final disposition of wastes.

Disposal considerations:

Epa rcra waste code: D011 (Silver); Applicable to wastes consisting only of this product.

14. Transport information

DOT (US), Canada (TDG), Mexico (MEX) This product is not a DOT hazardous material. Not classified or regulated.

IMDG Not regulated; Not dangerous goods.

ICAO Not regulated; Not dangerous goods.

IATA Not regulated; Not dangerous goods.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. Regulatory information

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

U.s. cercla reportable quantity (rq):

Not applicable. For metals listed under CERCLA (i.e., silver, copper and zinc), no reporting of releases of the solid form is required if the mean diameter of the pieces of the solid metal released is greater than 100 micrometers (0.004 inches).

U.s. tsca inventory status:

All components of this product are listed on the TSCA Inventory.

Us sara 313:

Silver and copper are subject to the SARA 313 reporting requirements.

California safe drinking water act (proposition 65) status:

Not applicable

15.2. Chemical safety assessment:

No data available

16. Other information

Other Information:

This information is provided for documentation purposes only.

Disclaimer:

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial and local laws.