

# SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION



Great Lakes Dental Technologies  
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CHEMTREC: 800-424-9300

**Product Name:** Silver Solder  
**Product Number:** 240-001, 240-011, 240-012

Effective Date: 6/20/23

## SECTION 2. HAZARDOUS IDENTIFICATION

### Classification

**Sensitization** - Skin, Category 1 – H317

**Carcinogenicity** – Category 2 - H351

**Specific target organ toxicity** – Repeated exposure – Category 2 – H373

Full text of H statements – See Section 16

### Signal Word

Warning



**Hazardous Ingredients** – Nickel

### Hazard Statements

May cause an allergic skin reaction.

Suspected of causing cancer (if inhaled).

May cause damage to organs through prolonged or repeated exposure.

Obtain special instructions before use.

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

Do not breathe dust, fume.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves, eye protection, face protection, and protective clothing.

IF ON SKIN – Wash with plenty of soap and water.

Get medical advice / attention if you feel unwell.

If skin irritation or rash occurs, get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents / container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## Other Hazards

### Adverse physicochemical, human health, and environmental effects

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction.

### Other hazards not contributing to the classification

None under normal conditions.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>%</u>	<u>Classification according to Regulation (EC)</u>
Silver (metal)	7440-22-4	20 - 80	Not classified as a hazardous substance
Substance with a community workplace exposure limit – EC # 231-131-3			
Nickel	7440-02-0	1 - 10	Garc. 2, H351
	EC # 231-111-4		STOT RE 1, H372
	EC Index # 028-002-00-7		Skin Sens. 1, H317

## SECTION 4. FIRST AID MEASURES

### Eye Contact

Rinse cautiously with water for several minutes. If eye irritation persists, get medical advice/attention.

### Skin Contact

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs, get medical advice / attention.

### Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical advice / attention.

### Ingestion

Rinse mouth. Do not induce vomiting. Get medical attention.

### General

If exposed or concerned, get medical advice / attention.

### Most Important Symptoms and Effects Both Acute and Delayed

#### Inhalation

May cause respiratory irritation. May cause cancer by inhalation

#### Skin Contact

May cause an allergic skin reaction.

#### Eye Contact

Dust from this product may cause eye irritation

#### Ingestion

May cause irritation to the respiratory tract and to other mucous membranes.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically

## **SECTION 5. FIRE FIGHTING MEASURES**

### **Suitable Extinguishing Media**

Dry powder. Use extinguishing media appropriate for surrounding fire.

### **Fire Hazard**

The product is not flammable

### **Explosion Hazard**

Product is not explosive

### **Reactivity in Case of Fire**

Not known.

### **Hazardous Decomposition Products in Case of Fire**

Toxic fumes may be released.

### **Precautionary Measure Fire**

No special measures required.

### **Firefighting Instructions**

Use extinguishing media appropriate for surrounding fire.

### **Protection During Firefighting**

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Spill and Leak Procedures**

Solid Metal Wire / Strip does not spill or leak. Avoid release to the environment. The material and container must be treated as hazardous waste.

## **SECTION 7. HANDLING & STORAGE**

### **Handling Precautions**

Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust, fume.

### **Hygiene Measures**

Always wash hands after handling the product. Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

### **Technical Measures**

Ensure adequate ventilation, especially in confined areas.

### **Storage Conditions**

Store locked up. Store in a well-ventilated place. Keep cool.

### **Incompatible Materials**

Acetylene, ammonia, ammonium nitrate, aqua regia, dioxane, ethylene oxide, chlorine trifluoride, halogens, hydrogen peroxide, hydrazine, hydrazine, mononitrate, hydrazoic acid, hydroxylamine, hydrogen sulfide, performic acid, phosphorous, selenium, sulfur, titanium plus potassium chlorate. Bromates, chlorates, and iodates of alkali and alkali earth metals.

**Store area**

Store in well-ventilated place.

**Packaging Materials**

Keep only in original container.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Work / Hygiene**

Wash thoroughly after handling. Avoid contact with dusts, mists, or fumes resulting from the use of this product. Do not eat, drink, or smoke in work area. Use only with adequate ventilation.

**Ventilation Measures**

Use enough ventilation, local exhaust at the flame to keep the fumes and gases below TLV's in the workers breathing zone and the general area. Train the employee to keep his head out of the fumes. See ANSI/ASC Z49.1 Section 5.

**Local Exhaust**

Yes

**Respiratory Protection**

Combined gas / dust mask

**Hand Protection**

Protective gloves

**Eye Protection**

Wear safety glasses, goggles, or use face shield with filter lens of appropriate shade number (see ANSI/ASC Z49.1 – Section 4.2). Provide protection screens and flash goggles, if necessary to shield others.

**Other Protective Clothing or Equipment**

Wear head and body protection, which helps to prevent injury from heat radiation, sparks, and flame. See ANSI Z49.1. At a minimum this includes gloves and a protective shield, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing.

**SECTION 9. PHYSICAL & CHEMICAL PROPERTIES**

- **Appearance** – wire, rod or strip
- **Color** – Metallic
- **Odor** – Odorless
- **Boiling Point** – No data
- **Melting Point** – No data
- **Solubility in Water** – Insoluble
- **Reactivity in Water** – None

**Not applicable** – Flash Point, Upper and Lower Limits, Vapor Pressure, Vapor Density, Auto-Ignition Temperature, Specific Gravity, % Volatile by Volume, Evaporation Rate

## **SECTION 10. STABILITY & REACTIVITY**

**Hazardous Reactions** – Will not occur.

**Stability** – Generally considered stable.

**Incompatibility** – Not applicable

**Conditions to Avoid** – None expected.

**Hazardous Decomposition Products** – Brazing fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being brazed, the process, procedures, and filler metals used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being brazed (such as paint, plating, or galvanizing), the number of operators and the volume of the work area, the quality and amount of ventilation, the position of the operator's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities). When the filler metal is consumed, the fume and gas decomposition products generated are different in percent and form from the solid wire or rod ingredients listed in Section 1. Fume and gas decomposition products, and not the ingredients in the rod or wire are important. The concentration of a given fume or gas component may decrease or increase by many times the original concentration in the rod or wire. Also, new compounds not in the rod or wire may form. Decomposition products of normal operation include those originating from the volatilization reaction, or oxidation of the wire or rod plus those from the base metal and coating, etc., as noted above.

## **SECTION 11. TOXICOLOGICAL INFORMATION (non-mandatory)**

### **Acute Toxicity**

Not classified (based on available data, the classification criteria are not met).

### **Skin Corrosion / Irritation**

Not classified (based on available data, the classification criteria are not met).

### **Serious Eye / Damage / Irritation**

Not classified (based on available data, the classification criteria are not met).

### **Respiratory or Skin Sensitization**

May cause an allergic skin reaction. Long-term exposure to brazing fume, gasses, or dust may contribute to pulmonary irritation or pneumoconiosis.

### **Germ Cell Mutagenicity**

Not classified (based on available data, the classification criteria are not met).

### **Carcinogenicity**

Suspected of causing cancer (if inhaled).

### **Reproductive Toxicity**

Not classified (based on available data, the classification criteria are not met).

### **Specific Target Organ Toxicity (repeated exposure)**

May cause damage to organs through prolonged or repeated exposure.

### **Aspiration Hazard**

Not classified (based on available data, the classification criteria are not met).

### **Potential Adverse Human Health Effects and Symptoms**

May cause cancer.

### **IARC Group**

2B

### **Other Information**

Likely routes of exposure - Inhalation

**SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)**

Avoid release into the environment.

**SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)**

**Waste Disposal Method**

Dispose in accordance with EPA regulations.

**SECTION 14. TRANSPORT INFORMATION (non-mandatory)**

**D.O.T. Proper Shipping Name** - Non - hazardous

**Identification Number** - Not applicable

**Type of D.O.T. Label Required Information** – Not applicable

**Hazard Class** – Not applicable

**Packing Group** – Not applicable

**SECTION 15. REGULATORY INFORMATION (non-mandatory)**

Not applicable – contains no reach substances.

**SECTION 16. OTHER INFORMATION (non-mandatory)**

**Full text of H – and EUH – Statements**

Carc. 2 – Carcinogenicity, Category 2

Skin Sens. 1 – Sensitization – Skin, Category 1

STOT RE 1 – Specific organ toxicity – Repeated exposure, Category 1

H317 – May cause an allergic skin reaction

H351 – Suspected of causing cancer

H372 – Causes damage to organs through prolonged or repeated exposure

H373 – May cause damage to organs through prolong or repeated exposure