SAFETY DATA SHEET

SECTION 1. INDENTIFICATION

Great Lakes Dental Technologies
200 Cooper Ave
Tonawanda, NY 14150

716-871-1161
800-828-7626
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

Hazardous Components	CAS #	%	Classification according to Regulation (EC)
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, phosphrous, 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 form 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 of 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