SDS Number: Lead Free Rosin Core Solder
Revision Date: 4/3/2025

SAFETY DATA SHEET

This Safety Data Sheet (SDS) covers welding consumables and related products and complies with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Superfund Amendments and Reauthorization Act (SARA) of 1986. Refer to the OSHA standard for specific requirements. This SDS is available on our website at www.forneyind.com, through your sales representative, or by contacting customer service at 1-800-521-6038.

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION:

Manufacturer/Supplier:	Forney Industries, Inc.
Address:	2057 Vermont Drive Fort Collins, CO 80525
Website:	www.forneyind.com
Email:	CustomerService@forneyind.com
Phone Number:	+1 (800) 521-6038
USA Emergency Phone Number:	+1 (800) 535-5053
International Emergency Phone Number:	+1 (352) 323-3500
Trade Name:	Lead Free Rosin Core Solder

Forney ITEM#'s: **61421**

SECTION 2 – HAZARDS IDENTIFICATION:

Emergency Overview: This product is normally not considered hazardous as shipped. Avoid eye contact or inhalation of
dust from the product. When this product is used in a welding process, the most important hazards are welding fumes, heat,
radiation and electric shock. Classification of the Substance/Mixture
CLP/GHS Classification (1272/2008): Carcinogenicity, Category 2
EU Classification (67/548/EEC):
Harmful (Xn), Carcinogen Category 3, R40 Labelling:

Symbols: 

Signal Word: Warning

Hazard-determining components of labelling:
Titanium Dioxide

Hazard Statements:

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H351 – Suspected of causing cancer. Precautionary Statements:

P201 – Obtain special instructions before use.

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

P280 – Wear protective gloves/eye protection/face protection. P281 – Use personal protective equipment as required.

P308+P313 – IF exposed or concerned: Get medical advice/attention. P402+P404 – Store in a dry place. Store in a closed container.

P405 – Store locked up.

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

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS:

name of material: solder wire

Harmful material composition	Component percentages	Hazardous Ingreidents
Sn	96.0±1.0%	Class 9 - other hazards
Pb	≤0.06	Class 9 - other hazards
Cu	≤0.05	Class 9 - other hazards
Bi	≤0.05	Class 9 - other hazards
Sb	≤0.05	Class 9 - other hazards
As	≤0.03	Class 9 - other hazards
Fe	≤0.02	Class 9 - other hazards
Zn	≤0.001	Class 9 - other hazards

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Al	≤0.001	Class 9 - other hazards
Cd	≤0.002	Class 9 - other hazards
Ag	3.8-4.2	Class 9 - other hazards
In	≤0.10	Class 9 - other hazards
Au	≤0.05	Class 9 - other hazards

SECTION 4 – FIRST AID MEASURES:

Inhalation: Remove to fresh air immediately or administer oxygen. Get medical attention immediately.

Skin: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

Eye: Flush eyes with water for at least 15 minutes. Get medical attention. Ingestion: Obtain medical attention immediately if ingested. Rinse mouth.

Electric Shock: Disconnect and turn off the power. Use a nonconductive material to pull victim away from contact with live parts or wires.
Immediately contact a physician.

SECTION 5 – FIRE-FIGHTING MEASURES:

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Welding arcs and sparks can ignite combustible and flammable materials. Use the extinguishing media recommended for the burning material and fire situation.

Unsuitable Extinguishing Media: Do not use water on molten metal. Large fires may be flooded with water from a distance.

Specific Hazards Arising From Chemical: Keep away from heat/spark/open flames/hot surfaces – No smoking. Ironoxides, Aluminum oxide, Silicon Oxides, Manganese/manganese oxides.

Protective Equipment: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES:

Environment Precautions: Prevent dust from escaping with air and spreading by water, and place the leakage in an airtight container after collection

Cleaning Measures: Use non-sparking tools and equipment to remove leaks. Dust is not diffused into the air.

SECTION 7 – HANDLING AND STORAGE:

Safety Disposal: Does not require special precautions

Operation Caotions: Operators must receive special training, strictly abide by the operation procedures. After operating solder adhesives, wash your hands before eating or smoking; Attention should be paid to clear the sold er on the fingernails; The operating environment should keep ventilation.

Storage: Storage and storage tank to achieve requirements: store in a dry, well ventilated, no pollution, the clean warehouses, storage must be waterproof, anti-pollution, don't be placed directly on the ground.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION:

MAC: No data

Monitoring Method: No data

Engineering Control: Generally do not need special protection, but need to prevent the smoke hazard.

Respiratory Protection: Excessive dust concentration in the air, it must be wearing a self-priming filter type dust mask. Urgent matter state rescue or evacuation, air breathing apparatus should be worn.

Hand Protection : Protective gloves

Glove Material: Alkyl cyanide rubber natural rubber and other insulation material to prevent burns. Into the glove material time please to Labour protection glove manufacturer to get the accurate fracture time and obey the rules as required.

Eye Protection : R sealing safety glasses goggles

Other Protective: No

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Silvery white slightly gray metal wire

Melting Point (℃): 210-240 Boiling Point (℃): inapplicability

Relative Density (water = 1):7.4g/cm3 PH: not applicable

Molecular weight: not applicable Odour: No

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Steam ratio = 1: (air) : no data available
Vapor pressure (21.1 ℃) : not applicable Relative Density (air = 1): no

data

Flash Point: no data
Ignition Temperature: no data Ignition Temperature: no data

Lower Explosive Limit: no data

Solubleness: Insoluble in water, soluble in nitric acid, soluble in dilute acid and alkali hydroxide solution main application: Used for high precision welding, timbre, film and television work especially strict welding equipment and spare parts. Advanced combination is such as computer, TV, acoustics, aviation, communication, etc.

SECTION 10 – STABILITY AND REACTIVITY:

Stability: stabilization
Prohibited content: Strong oxidant, acid Polymeric crimes against: Can't

happen Avoid contact with conditions: no data

Combustion products (decomposition): Natural decomposition product is unknown.

SECTION 11 – TOXICOLOGICAL INFORMATION:

Toxicity Category: No data. Invasion route: Inhale, eat.

health hazard:

Pb: Damage hematopoiesis, nerves, digestive system and kidney. Main for chronic occupational poisoning. Nervous system mainly for neurasthenia syndrome, peripheral neuropathy (with movement function obviously
affected), followed by lead poisoning encephalopathy. The digestive system performance has lead the gum line, loss of appetite, evil Qin, abdominal distention, diarrhea or constipation, abdominal colic cases in medium and heavy. Hematopoietic system damage in porphyrin metabolic disorders, anemia, etc. Short contact large doses can be acute or subacute lead poisoning, performance similar to severe chronic lead poisoning. Lead in the form of inorganic substances or dust inhaled or through the water, food through the digestive tract after invading the body, the savings in the bone marrow, liver, kidney, spleen and brain "repository", later released slowly, into the blood stream, causing chronic poisoning, acute poisoning is are. Lead have toxic effects on the body, but in the nervous system, blood and cardiovascular system. Alkyl lead compounds for flammable liquid, for nerve poison, toxic. In the acute

Tin: Dust and smoke may cause the skin, mucous membrane irritation, and dust causes benign lung disease (tin pneumoconiosis)

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Environment hazards: no data
Explosive danger : Powder of flammability.

SECTION 12 – ECOLOGICAL INFORMATION:

Biotoxicity: no data
biological degradability: no data bio-concentration: no data

Other harmful effects: The material may have harm to the environment, it is suggested that don't make it into the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS:

Nature Of The Waste: Industrial solid wastes
Waste Disposal Method: Centralized storage to a certain number, can return to the factory for recycling use

Matters Need Attention: To eliminate product, please consult the appropriate recycling companies or local authorities.

SECTION 14 – TRANSPORT INFORMATION:

Dangerous Goods Number: no UN number: no data packing mark: no data
packaging categories: Z01

Packing Method: carton and pallet packaging or other way.
Shipping Notice: packing should be full of actual loading should be safe. Transportation process to ensure that the container does not leak, collapse, f all, and not damaged. It is strictly prohibited and oxidant, acids, edible chemicals such as conventional mixing. Transit should prevent insolate, rain, heat. Transportation vehicles should make a thorough cleaning.

SECTION 15 – REGULATORY INFORMATION:

The hazardous chemical materials safety management regulations (state council order no. 344)

The dangerous goods name table (GB12268-2005)
The classification of dangerous goods and goods number (classified, under GB6944-2005)

The dangerous chemical safety specifications written regulations (GB16483 -2000)

The commonly used the classification of dangerous chemicals and mark " (GB13690-92)

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SECTION 16 – OTHER INFORMATION:

The guide introduces the product information, read the copy of the guide personnel should according to the characteristics of the industry and the latest development to make a choice, related information is available. The information contained in this is believed to be accurate, we are not liable because trust all involved in this paper. All of the final interpretation of the company. Reference: harmful chemical material and environmental database