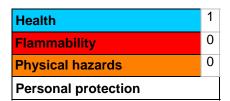
Safety Data Sheet

1/15/2010





1. Product and company identification

Product name Solder Wire, Tin-Antimony "Lead-Free" 1/8"

Forney SKUs 38060, 38061, 38062

Manufacturer Forney Industries, Inc.

2057 Vermont Dr. Fort Collins, CO 80525

Phone: 1-800-521-6038

Email: customerservice@forneyind.com

Emergency Response Phone: 1-800-535-5053 International Emergency

Response Phone: 352-323-3500

2. Hazards identification

Physical state Solid.
Odor None.

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Emergency overview WARNING!

Harmful if swallowed. Irritating to eyes, respiratory system and skin. Do not ingest. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly

closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry Dermal contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation Irritating to respiratory system.

Ingestion Harmful if swallowed. Can cause target organ damage. Ingestion may cause

gastrointestinal irritation and diarrhea.

Skin Irritating to skin. Skin inflammation is characterized by itching, scaling, reddening or,

occasionally, blistering.

Eyes Irritating to eyes. Adverse symptoms may include the following: redness, itching, swelling,

pain.

2. Hazards identification (continued)

Potential chronic health effects

Chronic effects

Contains material that can cause target organ damage. Adverse symptoms may include

the following:

Tin: Prolonged or repeated exposure may cause benign pneumoconiosis (Stannosis). **Metal**: Other Symptoms include: abdominal cramps and pain, metal fume fever, coughing, chills or shivering, muscle weakness. Prolonged or repeated contact may cause dermatitis. Chronic effects may cause dizzness/vertigo, drowsiness/fatigue,

anorexia. Can cause adverse reproductive effects in females.

Target organs Contains material which may cause damage to the following organs: blood, kidneys,

lungs, the nervous system, liver, mucous membranes, cardiovascular system, upper

respiratory tract, skin, eyes.

Carcinogenicity Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Mutagenicity No conclusive data is available to indicate product or any component present at greater

than 0.1% may cause heritable genetic effects.

Developmental effectsNo conclusive data is available to indicate product or any component present at greater

than 0.1% may cause developmental abnormalities.

Fertility effects No conclusive data is available to indicate product or any component present at greater

than 0.1% may impair fertility.

Medical conditions aggravated by overexposure Pre-existing digestive disorders and disorders involving any other target organs mentioned in this SDS as being at risk may be aggregated by ever expenses to this product.

in this SDS as being at risk may be aggravated by over-exposure to this product.

3. Composition/information on ingredients

 Name
 CAS number
 % by weight

 Tin
 7440-31-5
 80-100

 Metal
 7440-36-0
 1-5

Any ingredient not listed in Section 3 is non-regulated or present in the product in concentrations below legal disclosure limits.

4. First aid measures

Eye contact

Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Clean shoes thoroughly before reuse. Seek medical attention if irritation persists. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Inhalation

Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Continued on next page

4. First aid measures (continued)

Ingestion

Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wear suitable protective clothing, gloves and eye/face protection. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

5. Fire-fighting measures

Flammability of the product

No specific fire or explosion hazard.

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known.

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Hazardous combustion products

Metal oxide/oxides

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid contact with eyes, skin and clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or approved alternative container. Containers should be kept closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Continued on next page

7. Handling and storage (continued)

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8. Exposure controls/personal protection

Tin 7440-31-5 **OSHA PEL (United States, 9/2005).**

TWA: 2 mg/m³ 8 hour(s).

ACGIH TLV (United States, 1/2008).

TWA: 2 mg/m³ 8 hour(s).

NIOSH REL (United States, 6/2008). Notes: Note: The REL and PEL also apply to other inorganic tin compounds (as Sn) except

tin oxides.

TWA: 2 mg/m³ 10 hour(s).

Metal 7440-36-0 ACGIH TLV (United States, 1/2008). Notes: as Sb

TWA: 0.5 mg/m³, (as Sb) 8 hour(s).

OSHA PEL (United States, 11/2006). Notes: as Sb

TWA: 0.5 mg/m³, (as Sb) 8 hour(s).

OSHA PEL 1989 (United States, 3/1989). Notes: as Sb

TWA: 0.5 mg/m³, (as Sb) 8 hour(s).

NIOSH REL (United States, 6/2008). Notes: Note: The REL and

PEL also apply to other Antimony compounds (as Sb).

TWA: 0.5 mg/m³, (as Sb) 10 hour(s).

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Processes should be designed to minimize airborne and skin exposure to hazardous substances.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove/Take off immediately all contaminated clothing. Contaminated work clothing should not be allowed out of the workplace.

Personal protection

RespiratoryUse a properly fitted, air-purifying or air-fed respirator complying with NIOSH if a risk

assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

selected respirat

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Hands

Exposure controls/personal protection (continued) 8.

Avoid contact with eyes. Safety eyewear should be used when there is a likelihood of **Eyes**

exposure.

Skin Avoid contact with skin and clothing. Wear protective clothing. Body garments used

should be based upon the task being performed (e.g., lab coat, chemical resistant protective suit, sleevelets, synthetic apron, gauntlets) to avoid exposed skin surfaces. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Solid. **Physical state**

Flash point Not available. **Auto-ignition temperature** Not available. Flammable limits Not available.

Color Gray. Odor None.

Not available. pН **Boiling/condensation point** Not available. Not available. Melting/freezing point Not available. Vapor pressure Vapor density Not available. Not available. **Odor threshold Evaporation rate** Not available.

VOC 0 q/l

Solubility Insoluble in the following materials: cold water and hot water.

Stability and reactivity 10.

The product is stable. **Stability Conditions to avoid** No specific data.

Incompatibility with various

substances

Hazardous decomposition

Other Hazardous

decomposition products

Reactive with oxidizing agents, reducing agents, acids, alkalis, peroxides, chlorine.

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Metal fumes, toxic fumes.

Hazardous polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Acute toxicity

products

Product/ingredient name	Result	Species	Dose	Exposure
Metal	LD50 Oral	Rat	100 mg/kg	-

Forney Industries has not conducted specific studies on the toxicity of this product.

12. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Metal	Acute LC50 6.2 to 8.3 ppm Marine water	Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling, Weanling) - 8 to 15 mm	96 hours
	Chronic NOEC 6.2 ppm Marine water	Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling, Weanling) - 8 to 15 mm	96 hours

13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information		Proper shipping name	Classes		Additional information
	Not regulated.	-	-	-	

PG* : Packing group

15. Regulatory information

United States

HCS Classification Irritating material

Target organ effects

U.S. Federal regulationsAll ingredients comply with applicable rules or orders under United States TSCA.

All components are listed or exempted.

TSCA 5(a)2 proposed significant new use rules: No products were found. TSCA 5(a)2 final significant new use rules: No products were found.

TSCA 12(b) one-time export: No products were found.

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Metal	-	-
Supplier notification	Metal	-	-

Canada

WHMIS (Canada) Not controlled under WHMIS (Canada). Canada inventory All components are listed or exempted.

International lists

China inventory (IECSC) Europe inventoryAll components are listed or exempted.
All components are listed or exempted.

Continued on next page

15. Regulatory information (continued)

Australia inventory (AICS) Japan inventory (ENCS) Korea inventory (KECI) Philippines inventory (PICCS) All components are listed or exempted.

16. Other information

Definition of Terms

ACGIH American Conference of Governmental Industrial Hygienists

Ceiling Maximum exposure limit defined by OSHA

CAS Chemical Abstract Service

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit
REL Recommended Exposure Limit

RTK Right to Know

SARA Superfund Amendments and Reauthorization Act

STEL Short Term Exposure Limit
TLV ACGIH Threshold Limit Value

TLV-C ACGIH Threshold Limit Value, Ceiling

TRADE SECRET Claimed as allowed under 29CFR§1910.1200

TSCA Toxic Substances Control Act PPE Personal Protection Equipment

CEPA Canadian Environmental Protection Act

DSL Domestic Substance List
NDSL Non-Domestic Substance List
NSN New Substance Notification Rules

Disclaimer

The information contained herein is based on data considered accurate. However, no warranty is expressed of implied regarding the accuracy of these data or the results to be obtained from the use thereof. Additionally, Forney Industries assumes no responsibility for injury to the vendee or third persons proximately caused by the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.