



# Material Safety Data Sheet

## 1. Chemical Product & Company Information

Lead Free Rosin Core Wire Solder Product Name

Product Code:

Product Use/Restriction:

Manufacturer Name: Canfield Technologies/BOW Electronic Solders 1 Crossman Road, Sayreville, NJ 08872 Address:

General Phone Number: 732-316-2100

INFOTRAC 24 Hour Emergency Telephone Number: 1-800-535-5053

Website www.solders.com MSDS Creation Date 1-Apr-11 MSDS Revision Date: 1-Apr-11

#### 2. Composition & Ingredients

Chemical Name	CAS#	Ingredient Percent	EC Number
Gum rosin	9/7/50	0-10 by weight	
Proprietary ingredients	Proprietary	1 - 5 by weight	
Antimony:	7440-36-0	0-10 by weight	
Bismuth:	7440-69-9	0-10 by weight	
Copper:	7440-50-8	0-10 by weight	
Silver:	7440-22-4	0-100 by weight	
Zinc:	7440-66-6	0-10 by weight	
Tin:	7440-31-5	0-100 by weight	

### 3. Hazard Identification

Emergency Overview

Warning! Severe Irritant. Potential Sensitizer. Exposure to soldering fumes and vapors

may be irritating to eyes, respiratory system and skin.

Route of Exposure: Eyes, Skin, Inhalation, Ingestion.

Smoke during soldering can cause eye irritation.

Skin: May cause irritation.

May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. Inhalation of vapors, fumes or mist of this product causes severe respiratory system irritation.

May cause sensitization by inhalation.

Ingestion: May be harmful if swallowed. May cause vomiting. Ingestion of the product may produce gastrointestinal

irritation and disturbances.

Target Organs: Aggravation of preEyes, Skin, Respiratory system, Digestive system.

existing conditions:

May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

### 4. First Aid

Eye Contact:

Immediately flush eyes with water 15 to 20 minutes. Get medical attention if irritation or symptoms

of overexposure persists.

Skin Contact: Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

If inhaled, remove to fresh air, If not breathing, give artificial respiration or give oxygen by trained Inhalation:

personnel, seek immediate attention.

Ingestion: If swallowed, do not induce vomiting. Call a physician or poison control center immediately.

Never give anything by mouth to an unconscious person

## 5. Firefighting

Upper Flammable/Explosive Limit:

>93 °C (>199 °F) Not applicable. Not applicable.

Lower Flammable/Explosive Limit: Extinguishing Media:

Use alcohol resistant foam, carbon dioxide, dry chemical or water fog or spray

when fighting fires involving this material.

Unsuitable Media: Do not use a solid water stream as it may scatter and spread fire.

As in any fire, wear Self Contained Breathing Apparatus (SCBA), MSHA/NIOSH Protective Equipment:

(approved or equivalent) and full protective gear.

Hazardous Combustion Byproducts

Oxides of carbon, oxides of nitrogen, aliphatic aldehydes, and other organic substances may be formed during combustion. Melted solder above 1000 deg F

will liberate toxic lead and / or antimony fumes.

NFPA Ratings

NFPA Health: NFPA Flammability: NFPA Reactivity

NFPA Other

#### 6. Accidental Release Measures

Personnel Precautions Evacuate area and keep unnecessary and unprotected personnel from entering the

spill area. Avoid breathing vapor, aerosol or mist. Avoid contact with skin,

Environmental Precautions Avoid runoff into storm sewers, ditches, and waterways.

Methods For Containment: Melted solder will solidify on cooling and can be scraped up. Methods For Cleanup: Solidified solder can be scraped up upon cooling. Use caution to avoid breathing

### 7. Handling and Storage

Handling Use with adequate ventilation. Avoid breathing vapor and fumes. Use only in accordance

with directions

Storage: No special storage conditions required.

Wash thoroughly after handling. Avoid inhaling vapors, mists, or fumes. Hygiene Practices:

#### 8. Exposure Controls & Personal Protection

**Engineering Controls** Use appropriate engineering control such as process enclosures, local exhaust

> ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable other recognized standards. Consult with local procedures for selection, training, inspection and maintenance

of the personal protective equipment. Safety glasses with side-shields.

Hand Protection Description: Wear appropriate protective gloves. Consult glove manufacturers data for

permeability data.

Respiratory Protection: When ventilation is not sufficient to remove fumes from the breathing zone a safety

approved respirator or self-contained breathing apparatus should be worn

Exposure Guidelines

Gum Rosin: Sensitizer: Sen

## 9. Physical & Chemical Properties

Physical State Appearance: Solid Color: Amber Odor: Mild chemical Boiling Point: Not determined. Melting Point: >100 °C (>212 deg F) Density: >7 g/cm³ (@ 20 °c (68 °F)) Flash Point >93°C (>199 °F)

### 10. Stability & Reactivity

Chemical Stability: Stable under normal temperatures and pressures

Hazardous Polymerization: Not reported.

Conditions to Avoid: No thermal decomposition if used according to specifications.

Incompatible Materials: Oxidizing agents, Strong acids and alkalis,

Special Decomposition Products: When heated to soldering temperatures, the solvents are evaporated and rosin

may be thermally degraded to liberate aliphatic aldehydes and acids.

Carbon monoxide and carbon dioxide

#### 11. Toxicological Information

Inhalation:

RTECS Number VL0480000

Oral- Mouse LD50: 2.2 mg/kg [Behavioral- somnolence (general depressed activity) Ingestion

cardiac- pulse rate lungs, thorax Respiration- respiratory depression]

Oral Rat LD50: 3.0 mg/kg[Brian and Coverings- other degenerative changes Liver- other

changes Biochemical- Metabolism (Intermediary)-other] (RTECS)

Inhalation. Rat LC50: 110 mg/m³[Behavioral- somnolence (general depressed activity)

cardiac- pulse rate lungs, thorax Respiration- respiratory depression](RTECS)

## 12. Ecological Information

Ecotoxicity: No ecotoxicity data was found for the product. Environmental Fate: No environmental information found for this product.

## 13. Disposal Considerations

Waste Disposal: Consult with this US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications

of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in

accordance to the EPA and / state and local guidelines.

## 14. Transport Information

DOT Shipping Name: Not Regulated DOT UN Number: Not Regulated IATA Shipping Name Not Regulated IATA UN Number: Not Regulated IMDG Shipping Name: Not Regulated IMDG UN Number: Not Regulated RID Shipping Name: Not Regulated RID UN Number: Not Regulated

## 15. Regulatory Information

Canada Reg. Status: This product has been classified in accordance with the hazard

criteria of the Controlled products Regulation and the MSDS contains all of the information required by the the Controlled Products Regulations.

Canada WHMIS: Controlled- Class: D2B Toxic

TSCA Inventory Status: Listed Canada DSL: Listed Antimony: TSCA Inventory Status: Canada DSL: Listed Bismuth: TSCA Inventory Status: Listed 
 Canada DSL:
 Listed

 Copper:
 Listed

 TSCA Inventory Status:
 Listed

 Canada DSL:
 Listed

 Silver:
 Listed

 Canada DSL:
 Listed

 Zinc:
 TSCA Inventory Status:
 Listed

 Canada DSL:
 Listed

 Canada DSL:
 Listed

 Canada DSL:
 Listed

# 16. Additional Information

 General Use:
 Solder

 HMIS Health Hazard:
 1

 HMIS Fire Hazard:
 0

 HMIS Reactivity:
 0

 HMIS Personal Protection:
 X

 MSDS Creation Date:
 1-Apr-11

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Disclaimer:

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