

# THE G. A. AVRIL COMPANY

## TIN METAL

### SAFETY DATA SHEET

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

#### SECTION I: IDENTIFICATION

##### Product Identifier

Date Prepared: August 31, 2015

**Product Form:** Substance

**Product Name:** TIN METAL

**Formula:** Sn

**Synonyms:** High Purity Grade Tin in the following forms: wire, ingot, pig, pipe, anodes, cast bar, extruded bar, cakes, and miscellaneous extruded lines.

##### Intended Use of the Product

**Use of the substance/mixture:** For professional use only.

##### Name, Address, and Telephone of the Responsible Party

###### Company

The G. A. Avril Company

2108 Eagle Court

Cincinnati, OH 45237

(513) 731-5133

###### Emergency Telephone Number

**Emergency Number:** 513-731-5133, 800-331-9183

#### SECTION 2: HAZARDS IDENTIFICATION

##### Classification of the Substance or Mixture

###### Classification (GHS-US)

Not GHS Hazardous

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS)	

##### Label Elements

###### GHS-US Labeling

###### Warning



GHS07

###### Signal Word (GHS-US)

: Warning

###### Hazard Statements (GHS-US)

: Harmful if swallowed

: May cause drowsiness or dizziness

###### Precautionary Statements (GHS-US)

###### Prevention

: Wash face, hands and any exposed skin thoroughly after handling.

: Do not eat, drink or smoke when using this product.

: Avoid breathing dust/fume/gas/mist/vapors/spray.

: Use only outdoors or in a well-ventilated area.

###### Response

: Call a POISON CENTER or doctor/physician if you feel unwell.

###### Inhalation

: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable to breathing.

###### Ingestion

: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse Mouth.

###### Storage

: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

###### Disposal

: Dispose of contents/container to an approved waste disposal plant.

###### Other Hazards

Risk of thermal burns on contact with molten product.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

##### Substance

Component	Cas-No	%	ACIGH TWA
Tin	7440-31-5	99.8	2mg/m3

**SECTION 4: FIRST AID MEASURES**

**Description of First Aid Measures**

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**First-aid Measures After Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Cool skin rapidly with cold water after contact with molten product. Removal of solidified molten material from skin requires medical assistance. Seek medical attention for thermal burns.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

**Most Important symptoms and effects:** No information available.

**Notes to Physician:** Treat symptomatically

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

**Flash Point:** No information available.

**Method:** No information available.

**Auto ignition Temperature:** 1166 °F / 630 ° C

**Explosion Limits**

<b>Upper</b>	0.19%
<b>Lower</b>	No data available
<b>Sensitivity to Mechanical Impact</b>	No information available
<b>Sensitivity to Static Discharge</b>	No information available

**Specific Hazards Arising From the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

None known

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>NFPA</b>	<b>Health</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical Hazards</b>
	1	0	0	N/A

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment.

**Environmental Precautions** See section 12 for additional ecological information.

**Method for Containment and Clean Up** Sweep up or vacuum up spillage and collect in suitable container for disposal.

**SECTION 7: HANDLING AND STORAGE**

**Handling** Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

**Storage** Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tin	TWA: 2 mg/m3	(vacated) TWA: 2 mg/m3	IDLH: 100 mg/m3 TWA: 2 mg/m3

**Legend**

**ACGIH - American Conference of Governmental Industrial Hygienists**

**OSHA - Occupational Safety and Health Administration**

**NIOSH IDLH - The National Institute of Occupational Safety and Health Immediately Dangerous to Life or Health**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

## Personal Protective Equipment



### Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### Skin and Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

### Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder Solid
Appearance:	Grey
Odor	Odorless
Odor Threshold	No data available
pH	Not Applicable
Evaporation Rate	No data available
Melting Point	449.4 °F (231.9 °C)
Boiling Point	4118 °F (2270 °C)
Flash Point	No data available
Auto-Ignition Temperature	1166 °F (630 °C)
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Flammability or explosive limits	
Upper	0.19%
Lower	No data available
Vapor Pressure	1 mm Hg @ 1492 °C (2717.6 °F)
Vapor Density	No data available
Relative Density	7.300
Solubility	No data available
Partition Coefficient: N-Octanol/Water	No data available
Viscosity	No data available
Molecular Formula	Sn
Molecular Weight	118.69

## SECTION 10: STABILITY AND REACTIVITY

Reactive Hazard:	None known, based on information available.
Stability:	Stable under normal conditions.
Conditions to Avoid:	Incompatible products. Exposure to moist air or water.
Incompatible Materials:	Acids, strong oxidizing agents, strong bases, halogens, metals.
Hazardous Decomposition Products:	None under normal use conditions.
Hazardous Polymerization:	Hazardous polymerization does not occur.
Hazardous Reactions:	None under normal processing.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tin	700 mg/kg (Rat)	Not listed	Not listed

**Toxicologically Synergistic Products** No data available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation** No data available

**Sensitization:** No data available

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	Cas No.	IARC	NTP	ACGIH	OSHA
Tin	7440-31-5	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects** No data available.

**Reproductive Effects** No data available.

**Developmental Effects** No data available.

**Teratogenicity** No data available.

**STOT - single exposure** Central nervous system (CNS)

**STOT - repeated exposure** None known

**Aspiration Hazard** No data available.

**Symptoms/effects, both acute and delayed** No data available.

**Endocrine/Disruptor Information** No data available.

**Other Adverse Effects** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

Do not empty into drains.

**Persistence and Degradability** No data available.

**Bioaccumulation/Accumulation** No data available.

**Mobility** No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14: TRANSPORT INFORMATION**

**DOT** Not Regulated

**TDG** Not Regulated

**IMDG/IMO** Not Regulated

**IATA** Not Regulated

**SECTION 15: REGULATORY INFORMATION****International Inventories**

Component	TSCA	DSL	EINECS	PICCS	AICS	IECSC	KECL
Tin	X	X	231-141-8	X	X	X	X

**Legend:**

X-listed

**U.S. Federal Regulations**

**TSCA 12(b)** Not Applicable

**SARA 313** Not Applicable

**SARA 311/312 Hazardous Categorization**

**Acute Health Hazard** No

**Chronic Health Hazard** No

**Fire Hazard** No

**Sudden Release of Pressure Hazard** No

**Reactive Hazard** No

**Clean Water Act** Not Applicable

**Clean Air Act** Not Applicable

**OSHA** Not Applicable

**(Occupational Safety and Health Administration)**

**CERCLA** Not Applicable

**California Proposition 65** The product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tin	X	X	X	-	X

**U.S. Department of Transportation**

Reportable Quantity (RQ) N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**WHMIS Hazard Class**

Non-controlled

**SECTION 16: Other Information**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)