



US – OSHA SAFETY DATA SHEET

Issue Date: 4/2/2015

Revision Date: 4/11/18

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Tin Bar

OTHER PRODUCT NAMES:

MANUFACTURER: Mayco Industries
 18 West Oxmoor Road
 Birmingham, AL 35209
 205-942-4242

EMERGENCY TELEPHONE NUMBERS: Chemtel – 800-255-3924

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Category	Hazard and Precautionary Statements	
Health Skin Corrosion/Irritation – Category 2 Eye Corrosion/Irritation – Category 2B	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe dust/vapors.
	P264	Wash face, hands and any exposed skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P281	Do not eat, drink or smoke when using this product. Use personal protective equipment as required
Environmental		
Handling		

GHS Label: Lead Products

Signal Word: Warning!

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Specialty alloy

Material	% by Wt.	CAS #	OSHA EXPOSURE LIMIT
Tin	100%	7440-31-5	2.00 mg/cubic meter

SECTION 4: FIRST AID MEASURES

Eye Contact: Remove contact lenses if applicable and flush eyes with water for at least 15 minutes.

Skin Contact: Wash skin thoroughly. If contact with molten metal, cool skin rapidly and seek medical assistance.

Ingestion: Do not induce vomiting. Call poison control center or doctor.

Inhalation: Remove from exposure and rest in a position comfortable for breathing.

Important Symptoms & Effects, Acute & Delayed: Antimony causes nasal septal ulceration and stomach lining irritation. Tin is not regarded as toxic but excessive exposure can cause fever, nausea, stomach cramps or diarrhea.

Indication of Medical Attention: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Dry chemical, foam or CO₂. Do not use water when molten metal is present.

Hazards Combustion Products: Molten metals produce fume, vapor and or dust that may be toxic and/or respiratory irritants.

Fire Fighting Procedures: Use full-body protective clothing. Wear self-contained, full-face, positive pressure breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Allow metal to cool and solidify if molten. Place spilled materials in dry, closed containers for proper disposal or recycling. Do not dry sweep or use compressed air.

SECTION 7: HANDLING AND STORAGE

Handling: Wear personal protective equipment as necessary and recommended in Section 8. Wash exposed skin with soap and water after handling.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tin 7440-31-5	TWA: 2.0 mg/m ³ Sn	TWA: 2.0 mg/m ³ Sn	IDLH: 100 mg/m ³ Pb TWA: 2.0 mg/m ³ Pb

Engineering Controls: Handle and process in well-ventilated areas. Ensure that dust-handling systems are designed in a manner to prevent the escape of dust/fume into the work area. Emergency eyewash stations and safety showers should be available in the immediate vicinity of use. Ensure compliance with local/regional/national/international regulations.

Personal Protective Equipment: Protective goggles, gloves, and clothing, as needed. Respiratory protection, as necessary when exposures are unknown or above the PEL.

Eye/Face Protection: Use safety glasses with side shields or chemical goggles.

Skin and Body Protection: Not normally needed.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn as appropriate for protection from toxic dust.

General Hygiene Considerations: Do not eat, drink, smoke or apply cosmetics when using this product. Thoroughly wash face, hands and other exposed skin after handling or processing. Contaminated work clothing should not be allowed outside the workplace except for disposal or laundering.

SECTOPM 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid	Upper/Lower flammability limit: N/A
Appearance: Metallic, faint grey	Molecular weight: 118.69
Odor: N/A	Viscosity: N/A
pH: N/A	Decomposition temperature: N/A
Melting point: 449.4°F (231.9°C)	Auto ignition temperature: N/A
Boiling point: 4544.6°F (2507°C)	Partition coefficient: N/A
Boiling range: N/A	Solubility: N/A
Flash Point: N/A	Specific Gravity (Relative Density): 7.3 approx.
Evaporation rate: N/A	Vapor density: N/A
Flammability: N/A	Vapor density: N/A
Upper/Lower flammability limit: N/A	Vapor pressure: 1.3332 hPa at 1492°C

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical Stability: Stable under normal conditions.

Possible Hazardous Reactions: None under normal processing.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid: Incompatible materials

Incompatible Materials: Bromine, Bromine Trifluoride, Chlorine, Chlorine Trifluoride + Carbon, Water + Cupric Nitrate, Sodium Peroxide, Water vapor + Carbon Tetrachloride, Disulfur Dichloride, Fused Ammonium Nitrate, Potassium Dioxide, Tellurium, Turpentine, Acids (Nitric, Sulfuric, Hydrochloric, Acetic Acids), Caustic Alkali, Iodine Bromide. In the presence of water vapor, the interaction between Tin and Carbon Tetrachloride is violent. The interaction between Tin and Disulfur Dichloride is violent. Tin reacts violently with Iodine Bromide

Hazardous Decomposition Products: Tin Compounds.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Hazardous exposure can occur when the product is heated, oxidized or otherwise processed or damaged to create dust, vapor or fume. Main routes of exposure include ingestion and inhalation.

Chronic and Acute Related Symptoms/Effects: Chronic – None, Acute - None

Measures of Toxicity:

0% of the mixture consists of ingredient(s) of unknown toxicity.

Carcinogenic Effects: Not available.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate: This material is not expected to be harmful to the ecology.

Bioaccumulation Potential: N/A

Mobility in Soil: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Waste materials or by-products formed during handling or processing, and contaminated packaging should be properly characterized and disposed in accordance with applicable local/regional/national/international rules and regulations or recycled as appropriate. Consult local, state or federal environmental agencies for applicable requirements.

SECTION 14: TRANSPORT INFORMATION

This products covered by this Safety Data Sheet are not subject to DOT regulation. Waste materials or by-products formed during handling or processing or due to damage may be subject to regulation. Consult DOT for applicable requirements.

SECTION 15: REGULATORY INFORMATION**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No.	Weight - %	SARA 313 – Threshold Values %
Tin	7440-31-5	100%	Not Listed

SARA 311/312 Hazard Categories

Acute Health Hazard No

Chronic Health Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Tin 7440-31-5	-	-	-	-

US State Regulations**California Proposition 65**

This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

Chemical Name	California Proposition 65
Tin – 7440-31-5	Not Listed

US State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Tin – 7440-31-5	X	-	X	-	-

16. OTHER INFORMATION

Issue Date: 02-April-2015

Last Revision Date: 11- April-2018

Revision Note: More concise information. Corrected transport information. Minor reformatting.

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