

SAFETY DATA SHEET

Section 1: Identification

Product Name: Aluminum Ingot

Chemical Name/Synonyms: Re-melt Ingot Bar

Company: State Metal Industries, Inc. 941 South 2nd Street, Camden, NJ 08103

In emergency call 911.

For information about this SDS, use this department contact phone#: (856)964-1510

Information herein is given in good faith as authoritative and valid, however, no warranties, expressed or implied, can be made.

Section 2: Hazard(s) Identification

See <https://www.sigmaldrich.com/safety-center/globally-harmonized.html> for a list of hazard classifications, signal words, hazard statements, pictograms, precautionary statements, and a description of hazards.

Hazard Classification: N/A

Signal Word(s): N/A

Hazard Statements: Ingot bars are normally in a solid state

Pictograms: N/A

Precautionary Statements: N/A

Description of other hazards: Color is silvery white with no odor

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Aluminum Casting Alloy	Ingot Bar	7429-90-5	>70%

Section 4: First-Aid Measures

After skin contact: Wash with soap and water

After eye contact: N/A

After inhalation: N/A

After swallowing: N/A

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: This product does not present a fire or explosion hazard as shipped

Special protective equipment for firefighters: Fire fighters should wear NIOSH approved SCBA and protective clothing when appropriate

Section 6: Accidental Release Measures

Personal precautions: If molten, contain the flow using dry sand or flux

Measures for environmental protection: No environmental impacts

Measures for cleaning/collecting: N/A

Section 7: Handling and Storage

Handling: Avoid contact with sharp edges or heated material

Storage: Product should be kept dry. Oxidation may occur.

Section 8: Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Aluminum	15 mg/m ³ total dust		10 mg/m ³ metal dust	

General protective and hygienic measures: Molten aluminum and water can be an explosive combination. Molds and ladles must be preheated prior to use. Preheat ingot bars prior to charging into an oven or furnace.

Breathing equipment: NIOSH approved respiratory protection

Protection of hands: Wear appropriate gloves to limit skin contact and protect against heated material

Eye protection: ANSI approved safety glasses and/or goggles

Section 9: Physical and Chemical Properties

Form: Solid

Odor: N/A

Odor threshold: N/A

pH: N/A

Melting point/melting range: Generally 900-1220 degrees F

Boiling point/boiling range: 4442 degrees F

Flash point: Dust can ignite spontaneously with ignition source

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Auto ignition temperature: 1094 degrees F (dust)

Danger of explosion: Mixture with water when molten

Vapor pressure: 1mm @ 1264 degrees F

Vapor density: N/A

Relative density: Range is generally 2.50 – 3.12 g/cm³

Solubility in/Miscibility with water: insoluble

Section 10: Stability and Reactivity

Reactivity: Avoid contact with acids or alkaline

Chemical stability: Stable under normal conditions

Conditions to avoid: Contact of molten aluminum with water

Incompatible materials: Water, strong oxidizers, acid/alkalis, halogenated compounds, iron oxide, iron powder

Hazardous decomposition products: N/A

Section 11: Toxicological Information

Acute toxicity: N/A

Potential routes of exposure/potential health effects

Skin: N/A

Eye: N/A

Inhalation: N/A

Ingestion: N/A

Carcinogenic effects: N/A

Mutagenic effects: N/A

Reproductive toxicity: N/A

Sensitization: N/A

Target organs: N/A

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: N/A

Mobility: N/A

Biodegradation: N/A

Bioaccumulation: N/A

Section 13: Disposal Considerations (non-mandatory)

Reuse or recycle material whenever possible

Section 14: Transport Information (non-mandatory)

DOT regulations: Not regulated

- **Hazard class:** N/A
- **Land transport ADR/RID (cross-border):** N/A
- **ADR/RID class:** N/A
- **Maritime transport IMDG:** N/A

Air transport ICAO-TI and IATA-DGR: N/A

- **ICAO/IATA Class:** N/A

Section 15: Regulatory Information (non-mandatory)

US Federal Regulations

SARA Section 355 (extremely hazardous substances): N/A

SARA Section 313 (specific toxic chemical listings): N/A

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): N/A

TSCA (Toxic Substances Control Act): N/A

Section 16: Other Information

SDS date of preparation/update: July 2019