	SAFETY DATA S	SHEET (SDS)
ALLOYS	ZINC ALLO SDS DATE ISSUED	Y INGOT
Meets the Requirements of OSHA Standard 29 CFR 1910.1200 Hazard	00/0000	
Communication and EPA Supplier Notification Requirements under Sect of the Emergency Planning and Community Right-to-Know Act.	ion 313 09/2023	
SECTION 1—PRODUCT IDENTIFICATI	ON & COMPANY INFORMAT	ΓΙΟΝ
PRODUCT NAME		
ZINC ALLOY INGOT		
OTHER DESIGNATIONS: ASTM (American Society for Testing & Designations—Grades) Includes all zinc alloys.	Materials) Specification No's., (A	CI (Alloy Casting Institute) Alloy
PRODUCT IDENTIFICATION (Label Identifier)		
Zinc Alloy Ingot		
MANUFACTURER'S NAME	STREET ADDRESS	
Custom Alloy Sales, Inc.	13329 Ector St.,	
EMERGENCY TELEPHONE NO. (626) 369-3641	MAILING ADDRESS 13181 Crossroads Pkwy N. # 400	
TELEPHONE NO. (800) 633-8253	CITY, STATE, ZIP CODE, COUNTRY City of Industry, CA 91746	
FAX NO.	E-MAIL ADDRESS/WEBSITE	
(626) 369-2471	CustomAlloySales.com	
RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS	ON USE	
Solid casting; no restrictions		
SECTION 2—HAZARD	IDENTIFICATION	
This preparation is not classified as a Hazardous Product.		
SECTION 3—COMPOSITION/INFO		
SECTION S-COMPOSITION/INFO		
CHEMICAL NAME/COMMON NAME/SYNONYM	Wt %	CAS NUMBER
Zinc (Zn)	Balance	7440-66-6
Aluminum (Al)	4.0-27.0	7429-90-5
Copper (Cu)	0.0-3.0	7440-50-8
Others (Trace Amounts)		
Magnesium, Iron, Lead, Tin, Cadmium		

	SECTION 4	I-FIRST AID MEASURES	
EYE CONTACT:	Particle/Dust: Cautiously rinse	eye with lukewarm water or a first a	id liquid eye wash. If eye irritation
persists, see medica	•	,	
	Burns: Immediately seek medic	al attention.	
SKIN CONTACT:	Particle/Dust: No special requir	ements	
INGESTION: However, if you feel	Particle/Dust: If swallowed no s unwell seek medical attention.	specific intervention is needed as th	is material is not hazardous.
INHALATION:	Particle/Dust: If coughing and	irritation occur seek fresh air and m	edical attention.
	SECTION 5—FI	REFIGHTING MEASURES	
FLAMMABLE PROF Non-combustible a		ngs and dust from processing may	be readily ignitable.
EXTINGUISHING M	EDIA		
		uishing agents on fines, dust, or m molten metal. DO NOT USE halo	
explosive mixtures in	e to produce zinc oxide fume (PE contact with air or water when e gas which may also reach explos	and Explosion Hazards: 1500E Me L-5 mg/m ³) (CAS No. 1314-13-2). Z kposed to heat or flames. Contact w sive concentrations. ENTAL RELEASE MEASURES	Zinc/Zinc Oxide Dust may form
harden before clear	nup.	source of the release. Molten metal	
	ecautions: Zinc metal poses no in with soil, waterways, drains and s	mmediate ecological risks. Avoid di sewers.	spersal of spilled material and
	SECTION 7—H	ANDLING & STORAGE	
RECOMMENDED S	TORAGE		
Keep zinc metal dry	/.		
PROCEDURES FOR	R HANDLING		
-	ot protection is recommended. R	espiratory protection is recommend	ed where zinc fume/dust is
airborne.			
	SECTION 8—EXPOSURE C	ONTROLS/PERSONAL PROTECT	ION
ENGINEERING CON			
None Required. Th	ere are no health hazards from ca		
	SUBSTANCE	ACGIH TLV 1mm at	OSHA PEL
Zinc (Zn)		908.6EF None established – Soluble	*None established – Soluble
		10 mg/m ^{3 -} Particles	10 mg/m ³ – Zinc Dust 5 mg/m ³ – Zinc Oxide Fume
Aluminum (Al)		10 mg/m ³	10 mg/m ³ – Zinc Oxide Fume
Copper (Cu)		2 mg/m ³	1 mg/m ³
		<u> </u>	

*Note the OSHA PEL final rule limits are currently not enforceable due to a previous court decision.

Protective Clothing: Gloves, coveralls or other work appropriate clothing are recommended to prevent prolonged or repeated direct skin contact when zinc is processed.

Eye Protection: Safety eyewear should be used when necessary to avoid exposure to liquid splashes, gases, or dusts.

Respiratory Protection: Use a properly fitted, NIOSH/MSHA approved self-contained apparatus where Zinc Oxide Dust or Fumes are generated and cannot be controlled to within acceptable levels.

General Hygiene Considerations: Refrain from eating, drinking or smoking areas. No special packaging materials are required.

Ventilation: Use adequate local ventilation or general ventilation to keep airborne levels below recommended exposure limits. Supply sufficient replacement air to make up for air removed by the exhaust system.

SECTION 9—PHYSICAL	& CHEMICAL PROPERTIES			
APPEARANCE/PHYSICAL STATE				
Solid Bluish-White Metal				
ODOR/ODOR THRESHOLD	VAPOR DENSITY			
None	Not applicable			
MELTING POINT	SPECIFIC GRAVITY (H ₂ O = 1)			
717° - 734°F	5.0 - 6.7			
BOILING POINT	VAPOR PRESSURE			
900° - 910°F	1 mm Hg. at 908.6°F			
FLASH POINT	EVAPORATION RATE			
Not applicable for solid castings	Not applicable			
FLAMMABILITY	SOLUBILITY IN WATER			
Not flammable	Insoluble			
UPPER AND LOWER FLAMMABILITY LIMITS	рН			
Not applicable for solid castings	Not applicable			
AUTO IGNITION TEMPERATURE	VISCOSITY			
Not applicable	Not applicable			
DECOMPOSITION TEMPERATURE	PARTITION COEFFICIENT			
Not applicable	Not applicable			
SECTION 10—STABILITY & REACTIVITY				
CHEMICAL STABILITY				
Stable as shipped				
CONDITIONS TO AVOID				
Not applicable to castings. Fine metal dust or powder p explode and must be protected from ignition sources su	roduced by grinding or polishing aluminum metal can burn or uch as grinding sparks, etc.			
REACTIVITY	INCOMPATIBLE MATERIALS			
Castings are not reactive.	Avoid contact with acids and alkalis.			
HAZARDOUS DECOMPOSITION PRODUCTS	POSSIBILITY OF HAZARDOUS REACTIONS			
None	Not applicable to castings			
SECTION 11-TOXICO				
POTENTIAL HEALTH EFFECTS				
EYE CONTACT: No known significant effects or critical hazards.				
	5			
5				
INHALATION: No known significant effects or critical hazards.				
SECTION 12—ECOLOGICAL INFORMATION				
	PERSISTENCE AND DEGRADABILITY			
Not applicable Not applicable				
BIOACCUMULATION POTENTIAL MOBILITY IN SOIL				
Not applicable	Not applicable			

OTHER ADVERSE EFFECTS

Not applicable

SECTION 13—DISPOSAL CONSIDERATIONS

Recover or recycle if possible. Dispose of according to federal, state, and local regulations.

SECTION 14—TF	RANSPORT INFORMATION	
US DEPARTMENT OF TRANSPORTATION	CANADIAN TRANSPORTATION OF DANGEROUS	
(DOT)-HMR	GOODS (TDG)	
Not Regulated	Not regulated	
UN SHIPPING NAME	UN NUMBER	
Not regulated	Not regulated	
TRANSPORT HAZARD CLASS	PACKING GROUP	
Not regulated	Not regulated	
ENVIRONMENTAL HAZARDS	LABEL(S) REQUIRED?	
None	No	
TRANSPORT IN BULK	SPECIAL SHIPPING INFORMATION	
Not applicable	Not applicable	
SECTION 15 — RE	EGULATORY INFORMATION	
USA-OSHA (Hazard Communication Standard)		
HAZARDOUS UNDER HAZARD COMMUNICATIO	DN STANDARD - No	
USA-EPA (Toxic Substances Control Act–TSCA)		
All components of these products are on the TSCA	A inventory list or are excluded from the listing.	
USA-EPA (SARA Title III)		
EPCRA SECTION 302 EXTREMELY HAZARDOU	S SUBSTANCE - No	
EPCRA SECTION 311/312 HAZARD CATAGORIE	ES - No hazard categories apply.	
EPCRA SECTION 313 TOXIC RELEASE INVENT	ORY - This product does not contain any toxic chemicals subject	
	ever, potential by-products from this product, Zinc Oxide Fume/Dust	
are reportable.		
SECTION 16	- OTHER INFORMATION	
SDS SHEET PREPARED BY	DATE	
Custom Alloy Sales	09/2023	
NOTE	· · ·	
This data and label information is offered in good t	faith as typical values and not as a product specification. No	
	de. The recommended industrial hygiene and safe handling	

specific context of the intended use and determine if they are appropriate.

PRODUCT IDENTIFIER

ZINC CASTINGS

SUPPLIER IDENTIFICATION	HAZARD PICTOGRAMS
Company Name Custom Alloy Sales	None*
Street Address 13329 Ector St.	
Mailing Address 13181 Crossroads Pkwy N. # 400	SIGNAL WORD
City City of Industry State CA	None*
Zip/Postal Code 91746 Country_USA	
Emergency Phone Number_(800) 633-8253	
Other Info	
PRECAUTIONARY STATEMENTS	HAZARD STATEMENTS
None*	None*

*Castings do not present hazards in their original form.

OTHER INFORMATION

- 1. Grinding castings that have not been cleaned or that contain embedded sand may generate significant amounts of dust containing crystalline silica.
- 2. Fumes from hot processes may contain other compounds with different exposure limits. Dust or fumes generated by machining, grinding, welding or thermal cutting of the casting may produce airborne contaminants. Consult Sections 3 & 8 of the SDS for further information.