

Safety Data Sheet

Zinc/Aluminum

SECTION 1: PRODUCT DESCRIPTION

PRODUCT IDENTIFIER

Product form: Solid

Product Name: Zinc/Aluminum

Formula: Zn/Al Synonyms: N/A

INTENDED USE OF PRODUCT

Use: Industrial; professional use only

EMERGENCY TELEPHONE NUMBER

CHEMTEL 24 HR Emergency number: 1-800-255-3924

SUPPLIER

NATHAN TROTTER & COMPANY 241 W. STEWART HUSTON DRIVE

COATESVILLE, PA 19320

PH. 610-524-1440 FX. 610-524-2496

SECTION 2: HAZARD IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE				
Name	Product Identifier	%	Classification (GHS-US)	
Zinc, Metal	7440-66-6	95-100%	N/A	
Aluminum, Metal	7429-90-5	0-5%	N/A	

SECTION 4: FIRST AID MEASURES

General First-aid Measures: Never give an unconscious person anything by mouth. If you feel unwell, seek medical attention. (show label when possible)

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

EYES: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SKIN CONTACT: After contact with skin, wash immediately with plenty of water. **Molten Metal:** Flush contact area to solidify and cool but do not attempt to remove encrusted material or clothing. Cover burns and seek medical attention immediately.

INGESTION: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

SECTION 5: FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA: Use dry chemical, dry sand, or special powder extinguishing media. DO NOT use water, carbon dioxide or foam on a metal fire. Water is ineffective for extinguishing a zinc fire and can act as an accelerant. However, water may be used to keep fire-exposed billets, ingots and castings cool. Do not use water to cool molten zinc as entrapped water will rapidly turn to steam which can generate an explosion.

FIRE FIGHTING METHODS AND PROTECTION: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

FIRE AND/OR EXPLOSION HAZARDS: Combustible in the form of dust when exposed to heat or by exposing molten metal with water.

HAZARDOUS COMBUSTION PRODUCTS: N/A

SECTION 6: SPILL OR LEAK MEASURES/PROCEDURES

STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this SDS.

No special spill clean-up considerations. Collect and discard in regular trash.

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not ingest or take internally.

STORAGE: Keep container tightly closed in a cool, well-ventilated place.

STORAGE CODE: Green - general chemical storage.

SECTION 8: PROTECTION INFORMATION

CHEMICAL NAME: ZINC.METAL

	<u>ACGIH</u>		OSHA PEL	
OUEMOAL NAME, ALLIMINIUM METAL	<u>TWA</u> 2 MG/M3	STEL N/A	<u>TWA</u> 5 Mg/m3	STEL N/A
CHEMICAL NAME: ALUMINUM, METAL	<u>ACGIH</u>		2011	
			OSHA PEL	
	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>
	1 MG/M3	N/A	5 mg/m3	N/A

CONTROL PARAMETERS/ ENGINEER-

ING MEASURES: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure, Heat resistant clothing and gloves are required when handling molten metal.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Heat resistant gloves, safety boots, eye wash, safety shower.

RESPIRATORY PROTECTION No respiratory protection required under normal conditions of use. Respiratory protection may be required in addition to ventilation depending upon conditions of use.

EYE PROTECTION: Wear safety glasses when handling this product. Have an eye wash station available.

SKIN PROTECTION: Avoid skin contact by wearing heat resistant gloves, and other protective equipment depending upon conditions of use. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.

GLOVES: Heat resistant for molten metal.

SECTION 9: PHYSICAL DATA CONTINUED

FORMULA: Zn FREEZING POINT: No data available

MOLECULAR WEIGHT: 65.41 FLAMMABILITY: No data Available

APPEARANCE: Blue-Grey Metallic Solid FLASH POINT: No data available

ODOR: None **AUTO IGNITION TEMP.:** 860°F (460°C) (dust cloud in air)

PHYSICAL STATE: Solid DECOMPOSITION TEMPERATURE: No data available

pH: No data available VAPOR PRESSURE : 1mm at 909°F (487°C)

MELTING POINT: 786°F (419° C) SPECIFIC GRAVITY: 7.12 (Water = 1)

BOILING POINT: 1665°F (907° C) RELATIVE VAPOR DENSITY AT 25°C: 7.14g/cm3

FORMULA: AI FREEZING POINT: No data available

MOLECULAR WEIGHT: 26.98 FLAMMABILITY: No data Available

APPEARANCE: Silver Metallic Solid FLASH POINT: No data available

ODOR: No data available AUTO IGNITION TEMPERATURE: No data available

PHYSICAL STATE: Solid DECOMPOSITION TEMPERATURE: No data available

pH: No data available VAPOR PRESSURE: 0.00013 hPa at 974°C

MELTING POINT: 660°C SPECIFIC GRAVITY: 2.7 (Water = 1)

BOILING POINT: 2467°C RELATIVE VAPOR DENSITY AT 20°C

SECTION 10: REACTIVITY DATA

REACTIVITY: Molten form may react violently with water.

CHEMICAL STABILITY: Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Incompatible materials. In molten form: Moisture.

INCOMPATABLE MATERIALS: Strong Oxidizing agents, Strong acids, hydrogen chloride

HAZARDOUS DECOMPOSITION PRODUCTS: Zinc Oxides

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICITY DATA

ROUTES OF ENTRY: Inhalation and ingestion.

SYMPTOMS (ACUTE): Reproductive systems

DELAYED EFFECTS: No data available

ACUTE TOXICITY:

CHEMICAL NAME: CAS NUMBER **ORAL LD50 DERMAL LD50 INHALATION LC50** Zinc. Metal 7440-66-6 N/A N/A N/A

CARCINOGENICITY:

CHEMICAL NAME: CAS NUMBER **IARC NTP OSHA** N/A

Zinc. Metal 7440-66-6 N/A N/A

ACUTE TOXICITY:

CHEMICAL NAME: CAS NUMBER ORAL LD50 **DERMAL LD50 INHALATION LC50**

Aluminum, Metal 7429-90-5 N/A N/A N/A

CARCINOGENICITY:

CAS NUMBER **OSHA** CHEMICAL NAME: **IARC NTP**

Aluminum, Metal 7429-90-5 N/A N/A N/A

CHRONIC EFFECTS:

MUTAGENICITY: No evidence of a mutagenic effect.

TERATOGENICITY: No evidence of a teratogenic effect (Birth defect)

SENSITIZATION: No evidence of a sensitization effect.

REPRODUCTIVE: No evidence of negative reproductive effects.

TARGET ORGAN EFFECTS:

ACUTE: None CHRONIC: None

SECTION 12: ECOLOGICAL DATA

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

MOBILITY: N/A

CHEMICAL NAME: **CAS NUMBER ECO TOXICITY** PERSISTANCE: N/A

ZINC, METAL 7440-66-6 N/A

BIOACCUMULATION: N/A

CHEMICAL NAME: **ECO TOXICITY CAS NUMBER**

DEGRADABLITY: N/A N/A ALUMINUM, METAL 7429-90-5

OTHER ADVERSE EFFECTS: N/A

DISPOSAL INFORMATION SECTION 13:

DISPOSAL METHODS: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a

permitted waste disposer (TSD) to assure compliance

WASTE DISPOSAL CODE(S): Not determined

TRANSPORT INFORMATION **SECTION 14:**

GROUND- DOT PROPER SHIPPING NAME: AIR- IATA PROPER SHIPPING NAME:

Not regulated for transport by US DOT Not regulated for air transport by IATA

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: All components in this product are on the TSCA Inventory.

CHEMICAL NAME: CAS NUMBER § 313 NAME § 313 RQ CERCLA RQ § 302 TPQ CAA 112(2) TQ

Zinc, Metal
7440-66-6
Zinc
No
No</t

SECTION 16: ADDITIONAL INFORMATION

REVISED: MAY 2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Nathan Trotter & Co. Inc. makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

GLOSSARY:

ACGIH: American Conference of Governmental

Industrial Hygienists

CAS: Chemical Abstract Service Number

CERCLA: Comprehensive Environmental Response,

Compensation, and Liability Act

DOT: U.S. Department of Transportation

IARC: International Agency for Research on Cancer

N/A: Not Available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

PPM: Parts per million

RCRA: Resource Conservation and Recovery Act

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act

IDLH: Immediately dangerous to life and health