



**2022**  
**MATERIAL SAFETY DATA SHEET**  
**AI<sup>13</sup> HOME™ RAILING**

Reviewed: September 20, 2021

1	IDENTIFICATION
<b>Product Identification:</b>	Al <sup>13</sup> Home™ Railing
<b>USE:</b>	Typical uses of railing include pedestrian or vehicular barrier systems around residence, commercial, and industrial properties. This includes pedestrian barriers on decks and balconies and around swimming and wading pools.
<b>Manufacturer:</b>	Fortress Building Products  1720 N. 1 <sup>st</sup> St. Garland, TX 75040  Tel: 972.231.4001
<b>Emergency Info:</b>	<b>(USA Only) 866.323.4766</b>  <a href="mailto:customercare@fortressbp.com">customercare@fortressbp.com</a>

2	HAZARDOUS IDENTIFICATIONS
<b>OSHA Classification:</b>	Non-Hazardous
<b>Signal Words:</b>	None
<b>Hazard Statement:</b>	None
<b>Hazard Pictograms:</b>	None
<b>Risk Phrases:</b>	None
<b>Classification of the Substance or Mixture:</b>	This product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
<b>Information Concerning Particular Hazard for Human and Environment:</b>	This product is not labeled according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
<b>Classification System:</b>	This classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), extended by company and literature data

<b>3 COMPOSITION</b>		
<b>CAS NUMBER</b>	<b>NAME</b>	<b>PERCENTAGE</b>
7429-90-5	aluminum	96.5%
7440-50-8	copper	<1.0%
7439-95-4	magnesium	<1.0%
7439-89-6	iron	<1.0%
7440-47-3	chromium	<1.0%
7439-96-5	manganese	<1.0%
7440-21-3	silicon	<1.0%
7440-66-6	zinc	<1.0%
7440-32-6	titanium	<1.0%
25135-73-3	1, 3-benzenedicabocyclic acid, 1, 3-dimethyl ester, polymer with 1,4-dimethyl 1,4-benzenedicarboxylate and 1,2-ethanediol	1.0%

<b>4 FIRST AID</b>	
<b>General First Aid:</b>	No special measurements required
<b>After Inhalation:</b>	Supply Fresh Air; consult doctor in case of discomfort
<b>After Skin Contact:</b>	Generally, product does not cause skin irritation
<b>After Eye Contact:</b>	Rinse open eye for several minutes under running water
<b>After Swallowing:</b>	If symptoms develop, consult doctor
<b>After Inhalation:</b>	Thermal degradation and combustion byproducts may be toxic if inhaled If inhaled, consult doctor
<b>Most Important Symptoms/Effects,</b>	
<b>Acute or Delayed:</b>	No relevant information

<b>5</b>	<b>FIRE FIGHTING MEASURES</b>
<b>Flammability:</b>	Non-flammable unless in powder form from buffing, polishing
<b>Suitable Extinguishing Agents:</b>	Class D Dry Powder Extinguisher Do not use water
<b>Specific hazards:</b>	None If ignited, do not inhale fumes
<b>Special Protective Equipment for Fire fighters:</b>	Wear MSHA/NIOSH approved breathing apparatus

<b>6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
<b>Methods for Clean up:</b>	Pick up mechanically
<b>Environmental precautions:</b>	None
<b>Personal Precautions:</b>	None

<b>7</b>	<b>HANDLING AND STORAGE</b>
<b>Precautions for Safe Handling:</b>	None, reference general occupational hygienic measures in Section 8
<b>Conditions for safe storage:</b>	None

<b>8</b>	<b>EXPOSURE CONTROLS/ PERSONAL PROTECTION</b>
<b>Exposure Limits:</b>	<b>7429-90-5 Aluminum</b>
OSHA (PEL):	Long-term value: 15mg/m <sup>3</sup> *
NIOSH (REL):	Long-term value: 10mg/m <sup>3</sup> *
ACGIH (TLV):	Long-term value: 10mg/m <sup>3</sup> *
*Total Dust	
<b>Appropriate Engineering Controls:</b>	None
<b>Personal Precautions:</b>	Use gloves especially if product is hot
<b>Protection Equipment</b>	
<b>Specification:</b>	Glove material must be impermeable and resistant to aluminum

**9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

<b>Form:</b>	Solid
<b>Color:</b>	Varies
<b>Odor:</b>	None
<b>Odor Threshold:</b>	Not Applicable
<b>pH:</b>	Not Applicable
<b>Melting Point:</b>	Not Applicable
<b>Freezing Point:</b>	Not Applicable
<b>Boiling Point:</b>	4,478°F
<b>Flash Point:</b>	Not Applicable
<b>Evaporation Rate:</b>	Not Applicable
<b>Flammability:</b>	Not Applicable
<b>Upper Limit:</b>	Not Applicable
<b>Lower Limit:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Applicable
<b>Vapor Density:</b>	Not Applicable
<b>Relative Density:</b>	.098 lb/in <sup>3</sup> , [2.7 g/cm <sup>3</sup> ]
<b>Solubility:</b>	Not Applicable
<b>Partition Coefficient:</b>	Not Applicable
<b>Auto-Ignition Temp:</b>	Not Applicable
<b>Decompression Temp:</b>	Not Applicable
<b>Viscosity:</b>	Not Applicable

10 STABILITY AND REACTIVITY	
<b>Reactivity:</b>	Not applicable
<b>Chemical Stability:</b>	Not applicable
<b>Possibility of Hazardous Reaction:</b>	Not applicable
<b>Conditions to Avoid:</b>	Avoid overheating
<b>Incompatible Materials:</b>	Not applicable
<b>Hazardous Decomposition Products:</b>	Not applicable
<b>Thermal Degradation and Combustion Byproducts:</b>	In common with most organic materials, degradation and combustion byproducts may be toxic and should not be inhaled. Thermal degradation is not significant at temperatures achieved during proper installation, as directed by product installation guidelines. At temperatures higher than those recommended for proper installation, most significantly if the product burns, the thermal degradation and combustion byproducts will depend on the base polymer and additives used, and may include, but are not limited to, carbon dioxide and low molecular weight hydrocarbons.

11 TOXICOLOGICAL INFORMATION	
<b>Acute Toxicity:</b>	
LD50 Values	
<b>7439-89-6 iron</b>	
Oral LD50	984mg/kg (rat)
LD50 Values	
<b>7439-95-4 magnesium</b>	
Oral LD50	230mg/kg (rat)
LD50 Values	
<b>7439-96-5 manganese</b>	
Oral LD50	9g/kg (rat)
LD50 Values	
<b>740-21-3 silicon</b>	
Oral LD50	3160mg/kg (rat)
<b>Skin Corrosion/Irritation:</b>	Irritating effect possible
<b>Serious eye damage/ irritation:</b>	Irritating effect possible
<b>Respiratory or skin sensitization:</b>	Sensitization Possible
<b>Toxicology Information:</b>	When handled according to specification, no long or short term, harmful effects exist
<b>IARC (International Agency for Research of Cancer):</b>	Ingredients not listed
<b>NTP (National Toxicology Program):</b>	Ingredients not listed
<b>OSHA-Ca:</b>	Ingredients not listed

12 ECOLOGICAL INFORMATION	
<b>Ecotoxicology:</b>	No available data Prevent dust from cutting to enter storm drain or waterway
<b>Persistence and Degradability:</b>	No available data
<b>Bioaccumulative Potential:</b>	No available data
<b>Mobility in Soil:</b>	No available data Prevent dust from cutting to accumulate in soil that might migrate to ground water
<b>Other Adverse Effects:</b>	No available data

13 DISPOSAL CONSIDERATIONS	
<b>Disposal:</b>	Scrap metal and processing dust should be recycled or disposed of with household waste
<b>Container Cleaning and Disposal:</b>	Dispose of according to official regulations

14 TRANSPORTATION INFORMATION	
<b>UN Number (DOT, IMDG, IATA):</b>	Not regulated
<b>UN Proper Shipping Name (DOT, IMDG, IATA):</b>	Not regulated
<b>Transport Hazard Class (DOT, IMDG, IATA):</b>	Not regulated, labels not required on outside shipping container for these products and all products may be shipped through U.S. Postal Services
<b>Packaging Group (DOT, IMDG, IATA):</b>	Not regulated
<b>Environmental Hazards, Marine pollutants:</b>	Not regulated
<b>Special Precautions:</b>	None

15 REGULATORY INFORMATION	
<b>Section 355:</b>	Not applicable
<b>Section 313:</b>	Not applicable
<b>California Prop 65:</b>	None of the listed ingredients

16 OTHER INFORMATION	
<p>This information is accurate and reliable to the best of our knowledge. It is furnished without warranty, expressed or implied. Fortress Iron assumes no legal responsibility for hazards which may result through the use of, or reliance upon, this data. This MSDS was created in the compliance with health and safety practices and is not intended to be used for any other purpose.</p>	
<b>Revision History:</b>	
September 20, 2021 – Contents Updated	
October 23, 2019 – Original Issue	