



2022
MATERIAL SAFETY DATA SHEET
AI¹³ PLUS RAILING

Reviewed: September 20, 2021

1	IDENTIFICATION
Product Identification:	AI ¹³ PLUS Railing
USE:	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.
Manufacturer:	Fortress Building Products 1720 N. 1 st St. Garland, TX 75040 Tel: 972.231.4001
Emergency Info:	(USA Only) 866.323.4766 customercare@fortressbp.com

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

3 COMPOSITION		
CAS NUMBER	NAME	PERCENTAGE
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%

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

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

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

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

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

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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

10 STABILITY AND REACTIVITY	
Reactivity:	Not applicable
Chemical Stability:	Not applicable
Possibility of Hazardous Reaction:	Not applicable
Conditions to Avoid:	Avoid overheating
Incompatible Materials:	Not applicable
Hazardous Decomposition Products:	Not applicable
Thermal Degradation and Combustion Byproducts:	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	
Acute Toxicity:	
LD50 Values	
7439-89-6 iron	
Oral LD50	984mg/kg (rat)
LD50 Values	
7439-95-4 magnesium	
Oral LD50	230mg/kg (rat)
LD50 Values	
7439-96-5 manganese	
Oral LD50	9g/kg (rat)
LD50 Values	
740-21-3 silicon	
Oral LD50	3160mg/kg (rat)
Skin Corrosion/Irritation:	Irritating effect possible
Serious eye damage/ irritation:	Irritating effect possible
Respiratory or skin sensitization:	Sensitization Possible
Toxicology Information:	When handled according to specification, no long or short term, harmful effects exist
IARC (International Agency for Research of Cancer):	Ingredients not listed
NTP (National Toxicology Program):	Ingredients not listed
OSHA-Ca:	Ingredients not listed

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

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

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

15 REGULATORY INFORMATION	
Section 355:	Not applicable
Section 313:	Not applicable
California Prop 65:	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>	
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