Safety Data Sheet

Painted Aluminum

Section 1 - Chemical Product and Company Identification

Product name	Painted Aluminum
Manufacturer	Steelscape, LLC 222 West Kalama River Road Kalama, WA 98625
Revision Date	06/01/2015
Reference No.	200000000017
Emergency Contact:	CHEMTREC (24 hours) 1-800-424-9300

Section 2 - Hazards Identification

GHS Label Elements:

Hazard Pictograms:



Signal Word:

Warning

Hazard Statement:

Does not pose a health hazard in its normal form. Inhalation of metal dust and fume may result from further processing by the user, particularly during welding, burning, grinding and machining activities. These potential health hazards should be evaluated by the user. A non-metallic passivation treatment is normally applied based upon customer/end use criteria. These non-metallic coatings may contain hazardous substances of varying amounts. During processing, substances of varying chemical composition and quantity may be generated by the surface passivant. MSDS information regarding the surface passivant shall be supplied to the user upon request.

Carcinogenity:

Product as shipped: Does not present any cancer or reproductive hazards. Dust from mechanical processing: Does not present any cancer hazards. Can present a reproductive hazard (Manganese). Dust and fumes from welding or elevated temperature processing: Can present a cancer hazard (Hexavalent chromium compounds). Can present a reproductive hazard (Manganese compounds, inorganic).

Medical Conditions Aggravated by Long Term Exposure:

Skin disorders. Respiratory disorders. Asthma.

Chronic Effects:

No known chronic effects of components present at greater than 1%.

Precautionary Statement:

Inhalation of metal dust and fume may result from further processing by the user, particularly during welding, burning, grinding and machining activities. These potential health hazards should be evaluated by the user.

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS-No.	Weight%	
		Min	Max

Base Metal			
Aluminum	7429-90-5		99.0
Manganese Compounds (as Mn)	7439-96-5	0.9	3.1
Iron	7439-89-6	0.6	1.6
Silicon	7440-21-3	0.5	2.7
TIN, metal, oxide & inorg - exc. SnHy	7440-31-5	0	8.1
Magnesium	7439-95-4	0	3.1
Nickel, Metal and Insoluble compounds (as Ni)	7440-02-0	0	3.1
Silver	7440-22-4	0	1.6
Zinc (Reportable as a fume or dust)	7440-66-6	0	1.5
Copper Dusts & Mists (as Cu)	7440-50-8	0	1.3
Lead	7439-92-1	0	1.1
Titanium	7440-32-6	0	1.1
Antimony & Compounds (as Sb)	7440-36-0	0	1.1
Chromium (II) Compounds (as Cr)	7440-47-3	0	0.8
Base metal will vary.			

Section 4 - First Aid Measures

Eye contact:

Treat any foreign body in eye by flushing with large amounts of water. Seek medical attention immediately.

Skin contact:

Skin hazards are not expected. However, should dermatitis develop, affected area should be washed with mild soap and water. If irritation or other symptoms develop, seek medical attention. Precautions should be taken to protect against sharp steel edges. If the skin is abraded by handling, seek medical attention.

Ingestion:

Ingestion hazards are not expected.

Inhalation:

For treatment of overexposure to fumes and/or particulates, remove exposed individual to fresh air and seek medical attention. Administer artificial respiration or oxygen if breathing is difficult or has stopped.

Section 5 - Fire-Fighting Measures

Flammable Properties:

Finely divided aluminum powder or dust may form explosive mixtures in air.

Flash Point:

Not applicable.

Suitable Extinguishing Media:

Do not use water or foam. Dry chemical recommended.

Unsuitable Extinguishing Media:

DO NOT USE WATER OR FOAM.

Explosion Data Sensitivity to Mechanical Impact:

None.

Sensitivity to Static Discharge:

None.

Specific Hazards Arising from the Chemical:

Molten aluminum in the presence of water is very unstable. Do not use water to extinguish where there is a possibility of molten aluminum being present. Finely divided aluminum will form explosive mixture in air.

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health Hazard 1 Flammability 0 Stability 0 Physical and Chemical Hazards

HMIS Health Hazard 1 Flammability 0 Stability 0 Personal Precautions

Section 6 - Accidental Release Measures

Not applicable to this metal in its solid state. For spills involving finely divided particles, clean-up personnel should be protected against contact with eyes and skin. If material is in a dry state, avoid inhalation of dust. Fine, dry material should be removed by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid using compressed air. Do not release into sewers or waterways. Collect material in appropriate, labeled containers for recovery or disposal in accordance with federal, state, and local regulations.

Section 7 - Handling and Storage

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid dust formation. Do not breathe vapors/dust. Do not touch cast aluminum metal or heated aluminum product without knowing metal temperature. Aluminum experiences no color change during heating. Contact with hot metal can cause skin and eye burns. Keep in a dry, cool and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Respiratory protection:

NIOSH/MSHA approved dust and fume respirators should be used to avoid excessive inhalation of particulates. Appropriate respirator selection depends on the magnitude of exposure.

Hand protection:

Protective gloves should be worn as required for welding, burning or handling operations. If material is supplied with oil or other organic coating, wear protective gloves. However, do not continue to use gloves or work clothing that have become saturated with oil. Wash hands and any additional contact areas with soap and water or waterless hand cleaner.

Eye protection:

Use safety glasses or goggles as required for welding, burning, sawing, brazing, grinding or machining operations.

Engineering measures:

Local exhaust ventilation should be provided when welding, burning, sawing, brazing, grinding or machining to prevent excessive dust or fume exposure.

Personal protection equipment:

Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Avoid breathing fumes and/or dust.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: Thin sheet metal color, varies w/ topcoat used.
Odor: None
Vapor Pressure (mm Hg): N/A
Vapor Density (air = 1): N/A
Formula Weight: N/A
Density: 0.095 - 0.103 lbs/in^3
Sp. Gravity(H2O = 1): N/A
pH: N/A

Water Solubility: Insoluble
Other Solubilities: N/A
Boiling point/range: N/A
Freezing/Melting Point: 915 - 1215° F
Viscosity: N/A
Refractive Index: N/A
Surface Tension: N/A
% Volatile: N/A
Evaporation Rate: N/A

Section 10 - Stability and Reactivity

Chemical Stabilibity:

Stable under normal conditions of use, storage and transport.

Hazardous Conditions to Avoid:

N/A

Incompatible Products:

Acids. Alkalis. Hydroxides. Halogens.

Conditions to Avoid:

Aluminum fines are attacked by strong acids and alkalis and by some halogenated organic compounds especially at elevated temperatures. Operations generating aluminum fines may produce hydrogen gas when exposed to moisture. Hydrogen gas is highly flammable and can accumulate in poorly ventilated areas.

Hazardous Decomposition Products:

Welding of aluminum alloys may generate carbon monoxide, carbon dioxide, ozone, and nitrogen oxides.

Hazardous Polymerization:

Hazardous polymerization does not occur.

Section 11 - Toxicological Information

Ingredient Name	LD50 or LC50 Species /Route	OSHA PEL	ACGIH TLV(mg/m3) (TWA unless specified)
Base Metal			
Aluminum	No Information	10 Total Dust 5 Respirable Fraction	10 Metal Dust as Al
Manganese Compounds (as Mn)	rat/oral 9 mg/kg	5 ceiling as Mn	5 Dust as Mn 1 Fume as Mn 3 Fume as Mn (STEL)
Iron	mouse/oral 5.4 mg/kg	10 Iron Oxide Fume	5 Iron Oxide Fume as Fe
Silicon	No Information	15 Total Dust 5 Respirable Fraction	10 Total
TIN, metal, oxide & inorg - exc. SnHy			
Magnesium			
Nickel, Metal and Insoluble compounds (as Ni)			
Silver			
Zinc (Reportable as a fume or dust)	No Information	5 Fume as ZnO	5 Fume as ZnO
Copper Dusts & Mists (as Cu)			
Lead			
Titanium			
Antimony & Compounds (as Sb)	No Information	.5 TWA	.5 TWA
Chromium (II) Compounds (as Cr)			

Section 12 - Ecological Information

No data available for product as a whole. However, individual components have been found to be toxic to the environment. Metal dusts may migrate into soil and groundwater and be ingested by wildlife. Lead can be bioaccumulated in plants and water organisms, especially shellfish.

Section 13 - Disposal Consideration

Scrap should be recycled whenever possible. Product dusts and fumes from processing operations should also be recycled, or classified by a competent environmental professional and disposed of in accordance with applicable federal, state or local regulations.

Section 14 - Transport Information

Section 15 - Regulatory Information

SARA 311/312 Codes (40CFR370): Immediate (acute) health hazard and delayed (chronic) health hazard. SARA 313 (40CFR372.65): Manganese and Lead are subject to SARA 313 reporting requirements. Please note that if you prepackage or redistribute this product to industrial customers, SARA 313 requires that a notice be sent to those customers.

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): The product as a whole is not listed. However, individual components of the product are listed. OSHA Specifically Regulated Substance: Lead (29 CFR 1910.1025).

Section 16 - Other Information

Proposition 65 Statement:

WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

This Safety Data Sheet (SDS) has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Supplier Notification Requirements of SARA Title III, Section 313. This SDS represents products which may contain toxic chemicals.

The information contained in this SDS was obtained from sources which are believed to be reliable by the manufacturer. However, the information is provided without any responsibility or warranty, expressed or implied regarding its accuracy or correctness. The conditions or methods of handling, storage, use and disposal of this product are beyond the knowledge of the manufacturer. For this and other reasons, the manufacturer does not assume responsibility and expressly disclaims liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.