60513-1036

36 qa. Aluminum Strip Sheets

ST. LOUIS CRAFTS, INC.
7606 IDAHO AVE.
ST. LOUIS, MO 63111-3219

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MATERIAL SAFETY DATA SHEET

3 pages
Label

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Section 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Aluminum Alloy
Chemical Name:	Metal Alloy
Synonyms:	Metallic Aluminum And Aluminum Based Aluminum/Copper/Iron/Manganese/Magnesium/Zinc alloy formulations
Chemical Family:	Mixture – Metal Alloy
Formula:	Not applicable – mixture
Product Use:	Manufacture of articles

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Section 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	% by weight	OSHA PEL (mg/m)	TLV (mg/m^3)
Aluminum	7429-90-5	97.0% - 99.9%	N/A	10.0OF / 5.0 DF
Silicon	7440-21-3	0.05 – 1.7	N/A	10 total dust
Iron	7439-89-6	0.05 – 1.7	10 OF	5 OF
Copper	7440-50-8	<0.05 – 4.9	0.1 fume 1.0 dust	0.2 fume 1.0 dust
Manganese	7439-96-5	<0.03 – 1.5	5c dust 5c fume	5c dust 1 fume
Magnesium	7439-95-4	<0.03 – 5.6	15 OF	10 OF

NOTE:
Hazardous Ingredients (OF = oxide fumes / DF = dust and fume / TD = Ti dioxide)
Aluminum alloys will be comprised of various combinations of the elements shown above. In addition, other alloying elements may be present in minute quantities. No permissible exposure limits (PEL) or threshold limits values (TLV) exist for aluminum alloys.

Section 3 – HAZARDS IDENTIFICATION

HMIS RATINGS: Health: 0, Flammability: 1, Reactivity: 1
National Fire Protection Association (NFPA) Mixture. Not Rated.

Section 4 -- FIRST AID MEASURES

SKIN: For minor burns, apply cold water. For severe burns, seek immediate medical attention.

EYE: Immediately flush with water for 15 minutes. Seek medical attention if irritation persists.

INHALATION: For overexposure to alloy fumes, remove to fresh air. Seek medical attention for adverse symptoms.

INGESTION: None necessary.

Section 5 -- FIRE AND EXPLOSION DATA

FLAMMABILITY: No

FLASH POINT: N/A

MEANS OF EXTINCTION:
This product is non-combustible in bulk form. For fires involving aluminum fines or chips, use dry sand or Class D extinguishing agents approved for this use. DO NOT USE water or other liquids, foam, or halogenated extinguishing agents.

SPECIAL PROCEDURES:
Suspended aluminum dust, allowed to accumulate in a confined area, may be explosive. If remelted, moisture present in cavities or external surfaces may cause an explosion.

Section 6 -- ACCIDENTAL RELEASE MEASURES

If molten, contain the flow by using sand or alumina as a dam. Do not attempt to halt the flow of metal with shovels or hand tools.
LEAK AND SPILL PROCEDURE: See Aluminum Association publication "Guidelines for Handling Molten Aluminum" #69. The Aluminum Association, 900 19th Street, N.W. Suite 300, Washing DC 20006

Section 7 -- HANDLING AND STORAGE

Store in an area free from extreme temperature swings. The changes in temperature will cause the metal to sweat and damage the surface.
Scrap should be recycled.

Section 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS AND VENTILATION:
If ventilation is used to convey aluminum dust generated by grinding, sawing, etc., special ventilation procedures may be necessary to avoid explosion hazards. See National Fire Association Codes #65 and #651 National Fire Protection Association, Batterymarch Park, Quincy, MA 02269

PERSONAL PROTECITVE EQUIPEMENT:
Eye Protection: Wear safety glasses with side shields and/or goggles, to prevent dust from entering the eyes.

Respiratory Protection: If there is a potential for exposure to dust above exposure limits for individual components of the powder and the additive effects of the components, wear approved respirators.

Skin Protection: Use impervious gloves such as neoprene, nitrile or rubber for hand protection.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Material is (normal Conditions: Solid
Melting Point (Base Metal): 890-1220°F
Boiling Point (Base Metal: N/A
Solubility in Water: N/A
Specific Gravity (H_2O=1) N/A

Appearance and Color: Silver-Metallic, odorless
Vapor Pressure (mm Hg): N/A
Vapor Density (Air = 1): N/A
Evaporation Rate: N/A

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Product is stable.
CHEMICAL INCOMPATIBILITIES: Reacts with strong acids and caustics to form flammable and explosive hydrogen gas. Contact with sulfur may cause evolution of heat. Contact with halogenated compounds and oxiders may produce violent reactions and fires.
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic metal oxides and carbon and nitrogen oxides may be produced during a fire involving metal alloys.

Section 11 -- TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE:
Aluminum is considered a nuisance particulate. Welding or machining aluminum may generate dust and fumes, which may cause eye, nose, and throat irritation.

Section 12 -- ECOLOGICAL INFORMATION

None available.

Section 13 – DISPOSAL CONSIDERATIONS

All aluminum should be recycled.

Section 14 – TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION: None known

Section 15 – REGULATORY INFORMATION

This product contains a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.0