

1. Product and Company Identification

Material Name

Aluminum Sheet Coil - Bare and Coated

Chemical Formula

Mixture

Product Use

Various fabricated aluminum parts and products

Synonym(s)

Alloys Series 3XXX, 5XXX

Manufacturer Information

Jupiter Aluminum Corporation

1745 165th Street Hammond, IN 46320

Environmental, Health & Safety 1-219-933-2752

General Information 1-219-932-3322

Jupiter Coil Coating 205 East Carey Street Fairland, IN 46126

2. Hazards Identification

Emergency Overview

Solid. Bare or coated coil. Various colors. Odorless. Non-combustible as supplied.

Explosion/fire hazards may be present when:

- · Dust or fines are dispersed in air,
- Chips, fines or dust are in contact with water,
- Dust and fines are in contact with certain metal oxides (e.g., rust, copper oxide),
- Molten metal in contact with water/moisture.

Dust and fumes from processing can cause irritation of the eyes, skin and upper respiratory tract.

Potential Health Effects

Eyes

Dust and/or fume from processing can cause irritation.

Skin

Dust and/or fume from processing can cause irritation.

Inhalation

Dust and/or fume from processing can cause irritation of the upper respiratory tract. Chronic overexposure can cause pulmonary fibrosis (scaring of the lungs), central nervous system damage, secondary Parkinson's disease and reproductive harm to males.

Other health effects from welding, melting or other elevated temperature processing can cause nausea, fever, chills shortness of breath and malaise (metal fume fever) or the accumulation of fluid on the lungs (pulmonary edema). Long term, chronic overexposure can cause asthma or other diseases of the lungs and respiratory system.

Combustion of the coating can generate hydrogen chloride, hydrogen fluoride and other by-products of combustion. Short term overexposure can cause sever irritation of the respiratory system...



Carcinogenicity and Reproductive Hazard

Product as shipped does not present any cancer or reproductive hazards.

Medical Conditions Aggravated by Exposure to Product Dust and fume from processing may affect those with pre-existing respiratory system disease's or skin rashes.

3. Composition / Information on Ingredients

Composition

Aluminum alloys are comprised of various combinations of the elements shown. Complete composition may include some components classified as non-hazardous.

Components Aluminum Alloys	CAS Number	% by Weight	
Aldiniidiii Alloys		1	
Aluminum	7429-90-5	> 82 %	
Magnesium	1309-48A	< 1.5 %	
Manganese	7439-96-5	< 1.5%	
Iron	1309-37-1	< 1.0%	
Silicon	7440-21-3	< 1.0 %	
Chromium	7440-47-3	< 0.5 %	
Copper	7440-50-8	< 0.5 %	
Zinc	7440-66-6	< 0.5 %	

Coatings

Coatings

Skin Contact

Inhalation

Various

0% to 10%

Additional Information

Coatings may include vinyl, epoxy, polyester, siliconized polyester, acrylic,

polyurethane or lubricating oils.

Aluminum coil is produced from 100% post-consumer aluminum scrap.

4. First Aid Measures	
Eye Contact	Flush eyes with cold tap water or a saline eye wash solution for at least 15 minutes. Contact a physician if symptoms persist.

irritation develops of persists.

Remove to fresh air. Check for clear airway, breathing and presence of pulse.

Wash with soap and water for at least 15 minutes. Seek medical attention if

If person is not breathing immediately call 911 and begin CPR if qualified.

Ingestion Not Applicable



5. Fire Fighting Measures

Flammable/Combustible

Fire/Explosion Hazards

Properties

This product does not present fire or explosion hazards as shipped. Small chips, fine turnings and dust from processing may be readily ignitable.

May be a potential explosion hazard if a suspension of fine aluminum dust is present in the air. Finley divided metals may have enough surface oxide to

produce thermite reactions.

Extinguishing Media

Use Class D extinguishing agents on fines, dust or molten metal. Do not sue water of halogenated extinguishing media. Fire fighters should wear NIOSH

approved, positive pressure, SCBA and full protective clothing.

6. Accidental Release Measures

Spill or Leak Procedure

Collect scrap for recycling.

7. Handling and Storage

Handling Precautions

Keep material dry. Avoid generating dust. Avoid contact with sharp edges or heated metal. Hot aluminum does not necessarily glow red. For more information on the handling and storage of aluminum contact The Aluminum Association, 1525 Wilson Boulevard, Suite 600, Arlington, Virginia 2220, www.aluminum.org. It has a number of publications, including:

- > Guidelines for Handling Molten Aluminum
- Guidelines for Handling Aluminum Fines Generated During Various Aluminum Fabricating Operations

8. Exposure Controls / Personal Protection					
Component	CAS Number	OSHA - PEL (mg/m³)	ACGIH - TLV (mg/m³)		
Aluminum	7429-90-5	15 (total dust)	10 (oxide fume)		
	1	5 (total dust– respirable)	5 (dust and fume)		
Magnesium	1309-48A	15 (oxide fume)	10 (oxide fume)		
Manganese	7439-96-5	5 (dust/fume)	5 (dust)		
			1 (fume)		
Iron	1309-37-1	10 (fume)	5 (fume)		
Silicon	7440-21-3	15 (total dust)	10 (total dust)		
		5 (total dust– respirable)	,		
Chromium	7440-47-3	1.0 Chrome Metal	0.5 (dust)		
Copper	7440-50-8	0.1 (fume)	0.2 (fume)		
		1.0 (dust)	1.0 (dust)		
Zinc	7440-66-6	15 (total dust)	10 (oxide fume)		
l		5 (total dust– respirable)	5 (dust and fume)		
			,		

Personal Protective Equipment

Eye and Face Skin Protection Respiratory Protection Wear safety glasses with side shields.
Wear appropriate gloves to avoid skin injury.

If necessary, use NIOSH-Approved respiratory protection.

Wear all other appropriate PPE as required by site specific program.



9. Physical and Chemical Properties

Form Solid. Bare or coated coil.

Bare - Silvery gray. Painted - Various colors. Appearance

Boiling Point 4,478°F (estimated)

Melting Point 1.200°F Vapor Pressure Not Applicable **Evaporation Rate** Not Applicable Density (Water = 1) 2.5 - 2.9

Flashpoint Not Applicable Flammability Limits Not Applicable Water Solubility Not Applicable

10. Chemical Stability and Reactivity Information

Chemical Stability Stable under normal conditions of use, storage and transportation as shipped.

Conditions to Avoid Chips, fines, dust and molten metal are considerably more reactive with the

Water: Slowly generates hydrogen gas and heat. Molten metal can react violently/explosively with water or moisture, especially when water is entrapped.

Heat: Oxidizes at a rate dependent upon temperature and particle size. Strong Oxidizers: Violent reaction with considerable heat generation. Can

react explosively with nitrates when heated or molten.

Halogenated Compounds: Many halogenated hydrocarbons, including halogenated fire extinguishing agents can react violently with finely divided or molten aluminum.

Iron Oxide and other metal oxides: A violent thermite reaction generating considerable heat can occur. Reaction with aluminum fines and dust requires only a weak ignition source for initiation. Molten aluminum can react violently

with iron oxide without external ignition source.

Hazardous Decomposition

Products

Combustion of the coating can generate Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, Chlorinated Hydrocarbons, Hydrogen Fluoride and

partially oxidized hydrocarbons.

Hazardous Polymerization Will not occur.

11. Toxicological Information

Carcinogenicity No information available for this product as shipped. Certain Chromium

> compounds are classified by the national Toxicology Program as: A1 -Confirmed Human Carcinogen, this product ins not know to contain any of

those specific compounds.

Health Effects Associated with

Ingredients

Aluminum dust/fines and fumes are generally considered to be biologically

Manganese dust or fumes under conditions of chronic overexposure can cause inflammation of the lung tissue, scarring of the lungs, central nervous system damage, Secondary Parkinson's Disease and reproductive harm to males.

Silicon (inert dust) under conditions of chronic overexposure can chronic bronchitis and narrowing of the airways.

Chromium dust and fumes can cause irritation of eyes, skin and respiratory

Aluminum fumes generated during welding or melting present low health risk. Welding or plasma arc cutting of aluminum alloys can generate ozone. Ozone



can cause irritation of the eyes, nose and upper respiratory tract. Combustion of the coating can generate Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, Chlorinated Hydrocarbons, Hydrogen Fluoride and partially oxidized hydrocarbons.

12. Ecological Information

Aluminum and its alloys in the solid form, such as coils, ingots or sow, do not present any hazard to the environment. Aluminum can be fully recycled.

13. Disposal Considerations

Reuse or recycle material whenever possible. If reuse or recycle is not possible, disposal must be in accordance with local, state and federal regulations.

14. Transport Information

This product, as shipped, is not regulated by the US Department of Transportation as a hazardous material.

15. Regulatory Information

CERCLA/SARA - Hazardous Substances and Reportable Quantities

Chromium (7740-47-3)

5,000 pound final RQ (No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal is larger than 100

micrometers.

CERCLA/SARA -Section 313 - Emissions Reporting

Aluminum (7429-90-5)

1.0 % de minimis concentration (dust or fume only)

Chromium (7440-47-3)

1.0 % de minimis concentration

Manganese (7439-96-5)

1.0 % de minimis concentration SARA -Section 311/312 - Physical and Health Hazard Categories

Immediate Health Hazard

Yes, if particulate/fumes generated during processing

Delayed Health Hazard

Yes, if particulate/fumes generated during processing

Fire hazard

No

Sudden Release of Pressure

No

Reactive

Yes, if molten.

Other Regulations

The following components are listed on one or more of the following states hazardous substances lists

Component	CAS Number	CA	MA	MN	NJ	PA	
Aluminum	7429-90-5	Yes	Yes	Yes	Yes	Yes	
Chromium	7440-47-3	Yes	Yes	Yes	Yes	Yes	
Manganese	7439-96-5	Yes	Yes	No	Yes	Yes	
Component Inventory Listing							
Component	CAS Number	TSCA - US	DSL - Canada	EINECS	AICS - Australia	MITI - Japan	
Aluminum	7429-90-5	Yes	Yes	Yes	Yes	No	

MITI Inventory does not specifically list pure metals. However, the class of compounds for each of these metals is listed.

16. Other Information

MSDS History

Original - January 1992

Supersedes - January 1992

Revised - July 29, 2009

Prepared by:

EHS Director - Jupiter Aluminum Corporation