



# Material Safety Data Sheet

Product Name: CONSUMER/FOODSERVICE USE ALUMINUM FOIL

ID: 1111

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Chemical Formula:** Aluminum (Al) foil with alloying elements

**Other Designations:** 8921 Aluminum Foil, 8111 Aluminum Foil, 8011 Aluminum Foil, 1200 Aluminum Foil, 1100 Aluminum Foil, Foodservice Aluminum Foil

Alcoa Inc.  
201 Isabella Street  
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Phone: Health and Safety: 1-412-553-4649

**Emergency Information:** USA: Chemtrec: 1-800-424-9300 or 1-703-527-3887

Alcoa: 1-412-553-4001

**Website:** For a current MSDS, refer to Alcoa websites: [www.alcoa.com](http://www.alcoa.com) or Internally at [my.alcoa.com](http://my.alcoa.com) EHS Community

## \*\*\* Section 2 - Hazards Identification \*\*\*

### EMERGENCY OVERVIEW

Solid, foil or sheet. Silvery. Odorless. Non-combustible as supplied. Not hazardous under recommended conditions of use.

### POTENTIAL HEALTH EFFECTS

This product is considered an article and does not pose any health hazard under normal conditions of use.

**Eyes** Not a route of exposure under normal usage. May cause mechanical irritation or injury if material comes into contact with the eye.

**Skin** Not a route of exposure under normal usage.

**Ingestion** Not a route of exposure under normal usage.

**Inhalation** Not a route of exposure under normal usage.

#### Carcinogenicity and Reproductive Hazard

This product does not pose a hazard under normal conditions of consumer use. Does not present any cancer or reproductive hazards.

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

Complete composition is provided below and may include some components classified as non-hazardous.

CAS #	Component	Percent
7429-90-5	Aluminum	>96.9
7439-89-6	Iron	0-2
7440-21-3	Silicon	0-1.1

## \*\*\* Section 4 - First Aid Measures \*\*\*

**First Aid: Eyes** No measures needed during normal usage.

If material comes into contact with the eye, treatment for mechanical irritation or injury may be required. Consult a physician.

**First Aid: Skin** No measures needed during normal usage.

**First Aid: Inhalation** No measures needed during normal usage.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### Flammable/Combustible Properties

This product does not present fire or explosion hazards as shipped. Small chips, dust and fines may be ignitable.

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**Extinguishing Media** Use Class D extinguishing agents on dusts, fines or molten metal.

## Fire Fighting Equipment/Instructions

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

**Small/Large Spill** Collect scrap for recycling.

## \*\*\* Section 7 - Handling and Storage \*\*\*

**Handling/Storage** Product should be kept dry.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

**Engineering Controls** Not required under recommended conditions of use.

### Personal Protective Equipment

**Respiratory Protection** Not required under recommended conditions of use.

**Eye Protection** Not required under recommended conditions of use.

**Skin Protection** Not required under recommended conditions of use.

### Exposure Guidelines

**A: General Product Information** No information available for product.

### B: Component Exposure Limits

#### Aluminum (7429-90-5)

ACGIH 10 mg/m3 TWA (metal dust)

OSHA 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

#### Silicon (7440-21-3)

OSHA 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Physical State:</b>	Solid.	<b>Appearance:</b>	Silvery
<b>Boiling Point:</b>	Not determined	<b>Melting Point:</b>	1108-1207°F (598-653°C)
<b>Vapor Pressure:</b>	Not applicable	<b>Vapor Density:</b>	Not applicable
<b>Solubility in Water:</b>	None	<b>Density:</b>	0.094-0.11 lb/in3 (2.6-3.1 g/cm3)
<b>pH Level:</b>	Not applicable	<b>Odor:</b>	None

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

**Stability** Stable under normal conditions of use, storage, and transportation.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Health Effects Associated with Individual Ingredients

**Aluminum dust, fines and fumes** Low health risk by inhalation. Generally considered to be biologically inert.

### Acute Toxicity of Ingredients/Formed Compounds

**A: General Product Information:** No information available for product.

### B: Component Analysis - LD50/LC50

#### Iron (7439-89-6)

Oral LD50 Rat: 984 mg/kg

#### Silicon (7440-21-3)

Oral LD50 Rat: 3160 mg/kg

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## Carcinogenicity of Ingredients

**A: Ingredient Carcinogenicity - IARC/NTP** None of this product's components are listed by IARC or NTP.

**B: Ingredient Carcinogenicity - ACGIH** None of this product's components are listed by ACGIH.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

**A: General Product Information** No information available for product.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

Iron (7439-89-6)

96 Hr LC50 Morone saxatilis: 13.6 mg/L [static]

**Environmental Fate** No information available for product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

**Disposal Instructions** Reuse or recycle material whenever possible. Material may be disposed of at a sanitary landfill.

### US EPA Waste Number & Descriptions

**A: General Product Information**

RCRA Status: Not federally regulated in the U.S. if disposed of "as is." Otherwise, characterize in accordance with applicable regulations (40 CFR 261 or state equivalent in the U.S.)

**B: Component Waste Numbers**

RCRA waste codes other than described under Section A may apply depending on use of product. Refer to 40 CFR 261 or state equivalent in the U.S.

## \*\*\* Section 14 - Transportation Information \*\*\*

### Special Transportation

	PSN #1	PSN #2	PSN #3	PSN #4
Notes:	(1)			
UN NA Number:	-			
Proper Shipping Name:	Not regulated			
Hazard Class:	-			
Packing Group:	-			
RQ:	-			
Other - Tech Name:	-			
Other - Marine Pollutant:	-			

### Notes:

- (1) When "Not regulated," enter the proper freight classification, "MSDS Number," and "Product Name" on the shipping paperwork.

Canadian Controlled Products Regulation PIN: Not regulated

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

**A: General Product Information**

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

**B: Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

**Aluminum (7429-90-5)**

SARA 313: 1.0 % de minimis concentration (dust or fume only)

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## SARA 311/312 Physical and Health Hazard Categories:

**Immediate (acute) Health Hazard:** Yes, if particulates/fumes generated during processing.

**Delayed (chronic) Health Hazard:** Yes, if particulates/fumes generated during processing.

**Fire Hazard:** No

**Sudden Release of Pressure:** No

**Reactive:** Yes, if molten

## State Regulations

**A: General Product Information** No information available for product.

## B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Aluminum	7429-90-5	Yes	No	Yes	Yes	Yes	Yes
Iron	7439-89-6	Yes	No	No	No	No	No
Silicon	7440-21-3	No	No	Yes	Yes	Yes	Yes

## Other Regulations

**A: General Product Information** No information available for product.

## B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Aluminum	7429-90-5	1 %

## C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Aluminum	7429-90-5	Yes	Yes	Yes	Yes	No
Iron	7439-89-6	Yes	Yes	Yes	Yes	No
Silicon	7440-21-3	Yes	Yes	Yes	Yes	No

## Inventory information

**MITI Inventory:** Pure metals are not specifically listed by CAS or MITI number on the MITI Inventory. However, the class of compounds for each of these metals is listed.

## \*\*\* Section 16 - Other Information \*\*\*

## MSDS History

Original: October 19, 2001

Supersedes: November 11, 2004

Revised: April 11, 2008

## MSDS Status

04/11/08: Reviewed on a periodic basis in accordance with Alcoa policy. Changes in Sections 1, 2, 3, 4, 5, 8, 9, 10, 11, 12 and 14.

11/11/04: Reviewed on a periodic basis in accordance with Alcoa policy. Changes in Sections 1 and 15.

10/19/01: New MSDS. Replaces Reynolds MSDS No. 5232. For consumer and foodservice use of aluminum foil only. Use MSDS 980 for industrial/manufacturing uses of aluminum foil.

## Prepared By

Hazardous Materials Control Committee

Preparer: Stephanie Williams, 412-553-1479/Jon N. Peace, 412-553-2293

## MSDS System Number

156285

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## Other Information

- \* Aluminum Association's Bulletin F-1, "Guidelines for Handling Aluminum Fines Generated During Various Aluminum Fabricating Operations." The Aluminum Association, 1525 Wilson Boulevard, Suite 600, Arlington, Virginia 22209, [www.aluminum.org](http://www.aluminum.org).
- \* Aluminum Association, "Guidelines for Handling Molten Aluminum, The Aluminum Association, 1525 Wilson Boulevard, Suite 600, Arlington, Virginia 22209, [www.aluminum.org](http://www.aluminum.org).
- \* NFPA 65, Standard for Processing and Finishing of Aluminum (NFPA phone: 800-344-3555)
- \* NFPA 651, Standard for Manufacture of Aluminum and Magnesium Powder
- \* NFPA 70, Standard for National Electrical Code (Electrical Equipment, Grounding and Bonding)
- \* NFPA 77, Standard for Static Electricity
- \* Guide to Occupational Exposure Values-2007, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).
- \* Documentation of the Threshold Limit Values and Biological Exposure Indices, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH).
- \* NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, February 2004.
- \* Patty's Industrial Hygiene and Toxicology: Volume II: Toxicology, 4th ed., 1994, Patty, F. A.; edited by Clayton, G. D. and Clayton, F. E.: New York: John Wiley & Sons, Inc.
- \* expub, [www.expub.com](http://www.expub.com), Expert Publishing, LLC.

## Key-Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPR	Cardio-pulmonary Resuscitation
DOT	Department of Transportation
DSL	Domestic Substances List (Canada)
EC	Effective Concentration
ED	Effective Dose
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	Environmental Protection Act
IARC	International Agency for Research on Cancer
LC <sub>50</sub>	Lethal concentration (50 percent kill)
LC <sub>Lo</sub>	Lowest published lethal concentration
LD <sub>50</sub>	Lethal dose (50 percent kill)
LD <sub>Lo</sub>	Lowest published lethal dose
LFL	Lower Flammable Limit
MITI	Ministry of International Trade & Industry
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NORM	Naturally Occurring Radioactive Materials
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PIN	Product Identification Number
PSN	Proper Shipping Name
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TCLP	Toxic Chemicals Leachate Program
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
UFL	Upper Flammable Limit
WHMIS	Workplace Hazardous Materials Information System

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atm	atmosphere
cm	centimeter
g, gm	gram
in	inch
kg	kilogram
lb	pound
m	meter
mg	milligram
ml, ML	milliliter
mm	millimeter
mppcf	million particles per cubic foot
n.o.s.	not otherwise specified
ppb	parts per billion
ppm	parts per million
psia	pounds per square inch absolute
u	micron
ug	microgram

INFORMATION HEREIN IS GIVEN IN GOOD FAITH AS AUTHORITATIVE AND VALID; HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

This is the end of MSDS # 1111