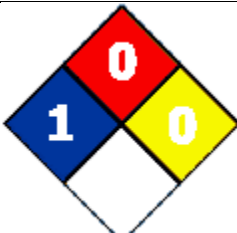



NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		Not Regulated
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Issuing Date 1-October-2008

Revision Date 1-October-2008

MSDS Number 001

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Aluminum coil and sheet for building and construction

**Product Code(s)** 1XXX, 1100, 1200A, 1350, 3XXX, 3003, 3004, 3015, 3105, 3105S, GL33, GL99, BH22, GLXX, 5XXX, 5017, 5052, 5754, 8XXX, 8111

**Recommended Use** Consumer durables distribution and light gauge application.

**Supplier Address**  
 Aleris Light Gauge Products  
 838 North Delsea Dr.  
 Clayton, NJ 08312  
 800-524-2558

**Emergency Telephone Number** Chemtrec 800-424-9300

**2. HAZARDS IDENTIFICATION**

**CAUTION!**

**Appearance** Silver, Metallic, Color, Solid      **Physical State** Solid      **Odor** None

**Potential Health Effects**

**Acute Toxicity**

**Eyes** May cause slight irritation.  
**Skin** Does not pose a potential of skin irritation and sensitization.  
**Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system.  
**Ingestion** Not an expected route of exposure. Ingestion may cause irritation to mucous membranes. May be harmful if swallowed.

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

**Aggravated Medical Conditions** Skin disorders. Respiratory disorders. Asthma.

**Environmental Hazard** See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Aluminum	7429-90-5	>92
Zinc	7440-66-6	<5.85
Magnesium	7439-95-4	<5.50
Silicon	7440-21-3	<2.0
Manganese	7439-96-5	<1.50
Chromium	7440-47-3	<0.35
Nickel	7440-02-0	<0.05
Lead	7439-92-1	<0.01

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Not an expected route of exposure. Immediate medical attention is not required. Consult a physician if necessary.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Finely divided aluminum powder or dust may form explosive mixtures in air.
<b>Flash Point</b>	Not applicable.
<b>Suitable Extinguishing Media</b>	Do not use water or foam. Dry chemical recommended.
<b>Unsuitable Extinguishing Media</b>	DO NOT USE WATER OR FOAM.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b>Specific Hazards Arising from the Chemical</b>	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.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>NFPA</b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Personal Precautions -</b>

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Ensure adequate ventilation. Use personal protective equipment.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	No special precautions for large product fragments. For dust cleanup use protective equipment. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

<b>Handling</b>	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.
<b>Storage</b>	Keep in a dry, cool and well-ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**                      The following table lists exposure limits for all chemicals listed in Section 3 where a limit exists.

Chemical Name	ACGIH TLV	OSHA PEL
Aluminum 7429-90-5	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> (total) TWA: 5 mg/m <sup>3</sup> (respirable)
Silicon 7440-21-3	TWA: 10 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup> (total)	TWA: 5 mg/m <sup>3</sup> (respirable)
Manganese 7439-96-5	TWA: 0.2 mg/m <sup>3</sup>	Ceiling: 5 mg/m <sup>3</sup>
Copper 7440-50-8	TWA: 0.2 mg/m <sup>3</sup> (fume) TWA: 1 mg/m <sup>3</sup> (dust)	TWA: 0.1 mg/m <sup>3</sup> (dust)
Chromium 7440-47-3	TWA: 0.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
Zirconium 7440-67-7	TWA: 10 mg/m <sup>3</sup> STEL TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Tin 7440-31-5	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
Nickel 7440-02-0	TWA: 1.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
Lead 7439-92-1	TWA: 0.05 mg/m <sup>3</sup>	TWA: 50 µg/m <sup>3</sup>

**Other Exposure Guidelines**                      Hexavalent chrome may be formed during welding. The welding of aluminum alloys may generate carbon monoxide, carbon dioxide, ozone, nitrogen oxides, infrared radiation and ultra-violet radiation.

**Engineering Measures**                      Showers  
   Eyewash stations  
   Ventilation systems

**Personal Protective Equipment**

**Eye/Face Protection**                      Tightly fitting safety goggles. Avoid contact with eyes.

**Skin and Body Protection**                Impervious gloves.

**Respiratory Protection**                    If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**                            Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Silver Metallic Color Solid	<b>Odor</b>	None
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Solid
<b>pH</b>	No information available		
<b>Flash Point</b>	Not applicable	<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available	<b>Boiling Point/Range</b>	No information available
<b>Melting Point/Range</b>	915-1215°F		
<b>Flammability Limits in Air</b>	No information available	<b>Explosion Limits</b>	No information available
<b>Solubility</b>	No information available	<b>Evaporation Rate</b>	No information available
<b>Vapor Pressure</b>	No data available	<b>Vapor Density</b>	No data available
<b>Density</b>	0.095-0.103 lbs/in <sup>3</sup>	<b>VOC Content</b>	Not applicable

**10. STABILITY AND REACTIVITY**

**Stability**    Stable under recommended storage conditions.

**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.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** The product itself has not been tested.

### Chronic Toxicity

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

**Carcinogenicity** No known carcinogens are present at greater than 0.1%.

**Sensitization** None known.

**Mutagenic Effects** None known.

**Reproductive Toxicity** None known.

**Developmental Toxicity** None known.

**Target Organ Effects** No known effects under normal use conditions.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with all applicable national environmental laws and regulations.

**Contaminated Packaging** Dispose of in accordance with local regulations.

## 14. TRANSPORT INFORMATION

### DOT

**U.S. Department of Transportation** Not regulated

### TDG

**Transport Dangerous Goods (Canada)** Not regulated

### MEX

**Transport Dangerous Goods (Mexico)** Not regulated

### ICAO

**International Civil Aviation Organization** Not regulated

### IATA

**International Air Transport Association** Not regulated

**IMDG/IMO**

International Maritime Dangerous Goods Code/International Maritime Organization Not regulated

**RID**

International Transport of Dangerous Goods by Rail Not regulated

**ADR**

International Transport of Dangerous Goods by Rail Not regulated

**ADN**

International Transport of Dangerous Goods by Inland Waterway Not regulated

**15. REGULATORY INFORMATION**

**CONEG:** This material meets CONEG requirements for packaging materials in that the sum of the concentration levels of incidentally introduced lead, mercury, cadmium, and hexavalent chromium present do not exceed 100 ppm.

**FDA:** This grade of aluminum is considered generally recognized as safe (GRAS) for use in food packaging materials.

**U.S. Federal Environmental Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Aluminum	7429-90-5	60-100	1.0
Zinc	7440-66-6	5-10	1.0
Manganese	7439-96-5	1-5	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard No  
 Chronic Health Hazard No  
 Fire Hazard No  
 Sudden Release of Pressure Hazard No  
 Reactive Hazard No

**U.S. State Regulations**

**California Proposition 65**

This product contains chemicals known to the State of California to cause cancer or reproductive toxicity.

Chemical Name	CAS-No	California Prop. 65
Nickel	7440-02-0	Carcinogen
Lead	7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive

**CONEG:** This material meets CONEG requirements for packaging materials in that the sum of the concentration levels of incidentally introduced lead, mercury, cadmium, and hexavalent chromium present do not exceed 100 ppm.

### International Regulations

#### Mexico

Chemical Name	Carcinogen Status	Exposure Limits
Aluminum		Mexico: TWA= 10 mg/m3
Manganese		Mexico: TWA= 0.2 mg/m3 Mexico: TWA= 1 mg/m3 Mexico: STEL= 3 mg/m3
Chromium		Mexico: TWA= 0.5 mg/m3
Silicon		Mexico: TWA= 10 mg/m3 Mexico: STEL= 20 mg/m3
Nickel		Mexico: TWA= 1 mg/m3
Lead	A3	Mexico: TWA= 0.15 mg/m3

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### WHMIS Hazard Class

Non-controlled

## 16. OTHER INFORMATION

Issuing Date                      October 1, 2008  
Revision Date                     October 1, 2008  
Revision Note                     Not applicable.

#### Disclaimer

Information herein is given in good faith as authoritative and valid: however, no warranty, express or implied, can be made.

The condition or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.

Commercial Sales Note: Check with your Aleris Rolled Products Sales Associate for specific Alloy availability.

**End of Safety Data Sheet**